. Request \_ Noble Terell

Access DB# 131238

# SEARCH REQUEST FORM

# Scientific and Technical Information Center

	P 1 1	
Requester's Full Name:	Sakiha Ozza	Examiner # : 74/4/ Date: 8/29/04
Art Unit: 1616	Phone Number 34 2	Serial Number / 6/6 950
Mail Bay and Bldg/Room	Location:	Results Format Preferred (circle) PAPER DISK E-MAII
4C70 Rem	4A-45	
If more than one search	is submitted, please pr	ioritize searches in order of need.
hadlude the elected species or st	tructures, keywords, synonyms any terms that may have a spe	scribe as specifically as possible the subject matter to be searched, s, acronyms, and registry numbers, and combine with the concept or cial meaning. Give examples or relevant citations, authors, etc., if ms, and abstract.
Title of Invention:	·	Y.
THE OTTER CHANGE	'J	
Inventors (please provide full	ROSE, 2	INGO et al) 60/374932
Parliest Priority Filing Da	to: 7/11/2002	60/374932
For Sequence Scarches Only* F or propriate script number.	Please include all pertinent inform	nation (parem, child, divisional, or issued patent numbers) along with the
Please	Search	for the compot and
its i	use for co	outrolling. diseases to as barley + wheat.
in G	rofe plant	to as barley & while
Specia	lie Contro	el of Psudecereo sporella
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STAFF USE ONLY	Type of Search	Vendors and cost where applicable
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Date Completed: 911/04		
Shareher Pren & Review Time: 20		
		Sequence Systems
Period Crep Time:	Patent Family	
Fine Time:	Other	Other (specify)

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=> d his
     (FILE 'HOME' ENTERED AT 11:08:00 ON 01 SEP 2004)
     FILE 'HCAPLUS' ENTERED AT 11:08:41 ON 01 SEP 2004
              1 US20040063793/PN
L1
     FILE 'REGISTRY' ENTERED AT 11:08:55 ON 01 SEP 2004
     FILE 'HCAPLUS' ENTERED AT 11:08:58 ON 01 SEP 2004
                                      5 TERMS
L2
                TRA L1 1- RN :
     FILE 'REGISTRY' ENTERED AT 11:08:58 ON 01 SEP 2004
L_3
              5 SEA L2
     FILE 'WPIX' ENTERED AT 11:09:02 ON 01 SEP 2004
              1 US20040063793/PN
L4
     FILE 'REGISTRY' ENTERED AT 11:18:02 ON 01 SEP 2004
L5
                STR
                STR L5
L6
              4 L6 CSS
L7
             88 L6 CSS FULL
Г8
                SAVE TEMP QAZI950FUL/A L8
             67 L8 AND C19H21BRO5
L9
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L10
             29 L8
             24 L9
L11
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                E E3+ALL
                E PSEUDOCERCOSPORELLA/CT
                E E8+ALL
L12
            223 PSEUDOCERCOSPORELLA HERPOTRICHOIDES+NT/CT
                E PSEUDOCERCOSPORELLA/CT
                E E3+ALL
L13
            238 PSEUDOCERCOSPORELLA+NT/CT
L14
             28 L10-11 AND (PY<=2002 OR PRY<=2002 OR AY<=2002 OR PD<20020711 OR
L15
              0 L14 AND L13
L16
            226 (P OR PSEUDOCERCOSPORELLA) (1A) HERPOTRICHOIDES
L17
              1 L14 AND L16
                E WHEAT/CT
                E E3+ALL
L18
          53363 WHEAT +OLD, NT/CT
                E BARLEY/CT
                E E3+ALL
L19
          29269 BARLEY+NT/CT
                E HORDEUM/CT
                E E3+ALL
             26 L14 AND AGROCHEM?/CC,SX
L20
                E TRITICUM/CT
                E E3+ALL
L21
              0 (L14 OR L20) AND L18-19
                E CROP/CT
                E E6+ALL
           2239 "CROP (PLANT)"/CT
L22
                E PLANT/CT
                E E3+ALL
          24717 PLANT/CT
L23
          19513 EMBRYOPHYTA/CW
L24
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L25 2522 L23-24 (L) CROP? L26 0 (L14 OR L20) AND (L22 OR L25)

FILE 'CABA' ENTERED AT 12:10:48 ON 01 SEP 2004 L27 0 L8-9

FILE 'AGRICOLA' ENTERED AT 12:11:10 ON 01 SEP 2004 L28 0 L8-9

FILE 'STNGUIDE' ENTERED AT 12:11:29 ON 01 SEP 2004

FILE 'EMBASE' ENTERED AT 12:16:35 ON 01 SEP 2004 L29 0 L8-9

FILE 'BIOSIS' ENTERED AT 12:17:16 ON 01 SEP 2004 L30 0 L8-9

FILE 'HCAPLUS' ENTERED AT 12:47:36 ON 01 SEP 2004 L31 27 L14 NOT L17

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FILE COVERS 1907 - 1 Sep 2004 VOL 141 ISS 10 FILE LAST UPDATED: 31 Aug 2004 (20040831/ED)

This file contains CAS Registry Numbers for easy and accurate substance identification.

'OBI' IS DEFAULT SEARCH FIELD FOR 'HCAPLUS' FILE

=> d all hitstr 131 tot

L31 ANSWER 1 OF 27 HCAPLUS COPYRIGHT 2004 ACS on STN

AN 2004:534158 HCAPLUS

DN 141:71349

ED Entered STN: 02 Jul 2004

TI Method for the production of benzophenones by Friedel-Crafts acylation of 3,4,5-trimethoxytoluene with an acid chloride

IN Maywald, Volker; Hoffmann, Nico; Keil, Michael; Vogelbacher, Uwe Josef;
Wevers, Jan Hendrik

PA BASF Aktiengesellschaft, Germany

SO PCT Int. Appl., 19 pp. CODEN: PIXXD2

DT Patent

LA German

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STRUCTURE FILE UPDATES: 31 AUG 2004 HIGHEST RN 736193-62-7 DICTIONARY FILE UPDATES: 31 AUG 2004 HIGHEST RN 736193-62-7

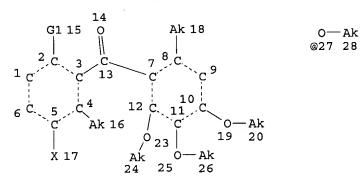
TSCA INFORMATION NOW CURRENT THROUGH MAY 21, 2004

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Crossover limits have been increased. See HELP CROSSOVER for details.

Experimental and calculated property data are now available. For more information enter HELP PROP at an arrow prompt in the file or refer to the file summary sheet on the web at: http://www.cas.org/ONLINE/DBSS/registryss.html

=> d que stat 18 L6 STR



VAR G1=OH/27 NODE ATTRIBUTES: DEFAULT MLEVEL IS ATOM DEFAULT ECLEVEL IS LIMITED

GRAPH ATTRIBUTES:
RSPEC 1 7
NUMBER OF NODES IS 26

STEREO ATTRIBUTES: NONE

L8 88 SEA FILE=REGISTRY CSS FUL L6

100.0% PROCESSED 1748 ITERATIONS SEARCH TIME: 00.00.01

88 ANSWERS

=> d que stat 19 L6 STR

VAR G1=OH/27 NODE ATTRIBUTES: DEFAULT MLEVEL IS ATOM DEFAULT ECLEVEL IS LIMITED

GRAPH ATTRIBUTES:
RSPEC 1 7

NUMBER OF NODES IS 26

STEREO ATTRIBUTES: NONE

L8 88 SEA FILE=REGISTRY CSS FUL L6

L9 67 SEA FILE=REGISTRY ABB=ON PLU=ON L8 AND C19H21BRO5

=> d his

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FILE 'HCAPLUS' ENTERED AT 11:08:41 ON 01 SEP 2004 L1 1 US20040063793/PN

FILE 'REGISTRY' ENTERED AT 11:08:55 ON 01 SEP 2004

FILE 'HCAPLUS' ENTERED AT 11:08:58 ON 01 SEP 2004 L2 TRA L1 1- RN : 5 TERMS

FILE 'REGISTRY' ENTERED AT 11:08:58 ON 01 SEP 2004 L3 5 SEA L2

FILE 'WPIX' ENTERED AT 11:09:02 ON 01 SEP 2004 L4 1 US20040063793/PN

FILE 'REGISTRY' ENTERED AT 11:18:02 ON 01 SEP 2004

L5 STR

L6 STR L5

L7 4 L6 CSS

L8 88 L6 CSS FULL

SAVE TEMP QAZI950FUL/A L8

L9 67 L8 AND C19H21BRO5

FILE 'HCAPLUS' ENTERED AT 11:52:10 ON 01 SEP 2004

L10 29 L8

L11 24 L9

E PSEUDOCERCOSPORELLA/CT

E E3+ALL

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E PSEUDOCERCOSPORELLA/CT
                E E8+ALL
            223 PSEUDOCERCOSPORELLA HERPOTRICHOIDES+NT/CT
L12
                E PSEUDOCERCOSPORELLA/CT
                E E3+ALL
            238 PSEUDOCERCOSPORELLA+NT/CT
L13
             28 L10-11 AND (PY<=2002 OR PRY<=2002 OR AY<=2002 OR PD<20020711 OR
L14
L15
            226 (P OR PSEUDOCERCOSPORELLA) (1A) HERPOTRICHOIDES
L16
              1 L14 AND L16
L17
                E WHEAT/CT
                E E3+ALL
          53363 WHEAT +OLD, NT/CT
L18
                E BARLEY/CT
                E E3+ALL
          29269 BARLEY+NT/CT
L19
                E HORDEUM/CT
                E E3+ALL
             26 L14 AND AGROCHEM?/CC,SX
L20
                E TRITICUM/CT
                E E3+ALL
              0 (L14 OR L20) AND L18-19
L21
                E CROP/CT
                E E6+ALL
           2239 "CROP (PLANT) "/CT
L22
                E PLANT/CT
                E E3+ALL
          24717 PLANT/CT
L23
          19513 EMBRYOPHYTA/CW
L24
L25
           2522 L23-24 (L) CROP?
              0 (L14 OR L20) AND (L22 OR L25)
L26
     FILE 'CABA' ENTERED AT 12:10:48 ON 01 SEP 2004
              0 L8-9
L27
     FILE 'AGRICOLA' ENTERED AT 12:11:10 ON 01 SEP 2004
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L28
     FILE 'STNGUIDE' ENTERED AT 12:11:29 ON 01 SEP 2004
     FILE 'EMBASE' ENTERED AT 12:16:35 ON 01 SEP 2004
              0 L8-9
L29
     FILE 'BIOSIS' ENTERED AT 12:17:16 ON 01 SEP 2004
              0 L8-9
L30
=> b hcap
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FILE 'HCAPLUS' ENTERED AT 11:08:41 ON 01 SEP 2004 L1 1 US20040063793/PN

FILE 'REGISTRY' ENTERED AT 11:08:55 ON 01 SEP 2004

FILE 'HCAPLUS' ENTERED AT 11:08:58 ON 01 SEP 2004 L2 TRA L1 1- RN : 5 TERMS

FILE 'REGISTRY' ENTERED AT 11:08:58 ON 01 SEP 2004 L3 5 SEA L2

FILE 'WPIX' ENTERED AT 11:09:02 ON 01 SEP 2004 L4 1 US20040063793/PN

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FILE COVERS 1907 - 1 Sep 2004 VOL 141 ISS 10 FILE LAST UPDATED: 31 Aug 2004 (20040831/ED)

This file contains CAS Registry Numbers for easy and accurate substance identification.

'OBI' IS DEFAULT SEARCH FIELD FOR 'HCAPLUS' FILE

#### => d all l1

- L1 ANSWER 1 OF 1 HCAPLUS COPYRIGHT 2004 ACS on STN
- AN 2004:60223 HCAPLUS
- DN 140:106945
- ED Entered STN: 26 Jan 2004
- Use of benzophenones as fungicides for controlling Pseudocercosporella herpotrichoides
- IN Gewehr, Markus; Rose, Ingo; Mueller, Bernd; Ammermann, Eberhard; Orth,
  Ann; Van Tuyl Cotter, Henry
- PA BASF Aktiengesellschaft, Germany
- SO PCT Int. Appl., 17 pp. CODEN: PIXXD2
- DT Patent
- LA German
- IC ICM A01N035-04
- CC 5-2 (Agrochemical Bioregulators)

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FAN.CNT 1
                                            APPLICATION NO.
                         KIND
                                DATE
     PATENT NO.
                         _ _ _ _
                                 -----
                                                                    20030707
                                           WO 2003-EP7255
                                 20040122
PΙ
     WO 2004006675
                          A1
         W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN,
             CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH,
             GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR,
             LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NI, NO, NZ, OM,
             PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, UZ, VC, VN, YU, ZA, ZM, ZW, AM, AZ, BY, KG,
             KZ, MD, RU, TJ
         RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AT, BE, BG,
             CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC,
             NL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ,
             GW, ML, MR, NE, SN, TD, TG
                                             US 2003-616950
                                                                     20030711 <--
                                20040401
     US 2004063793
                          A1
PRAI US 2002-394932P
                          P
                                 20020711
CLASS
                 CLASS PATENT FAMILY CLASSIFICATION CODES
 PATENT NO.
                        _____
                        A01N035-04
 WO 2004006675
                 ICM
    MARPAT 140:106945
os
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Benzophenones (I, R = H or C1-C4 alkyl; X = F, C1, Br) are useful as fungicides for controlling Pseudocercosporella herpotrichoides in cultivated plants. Thus, the incidence of eyespot disease in wheat inoculated with P. herpotrichoides was 0-25% when plants had been treated with 63 ppm I (R = Me or H; X = Br or C1), whereas 100% of untreated plants were infected.

ST benzophenone fungicide Pseudocercosporella control

IT Fungicides

Hordeum vulgare

Oculimacula yallundae

(benzophenones as fungicides for controlling Pseudocercosporella herpotrichoides in crops)

IT Triticum aestivum

(disease, eyespot; benzophenones as fungicides for controlling Pseudocercosporella herpotrichoides in crops)

IT 220899-03-6 220900-12-9 252955-10-5 252955-12-7

RL: AGR (Agricultural use); BSU (Biological study, unclassified); BIOL (Biological study); USES (Uses)

(as fungicide for controlling Pseudocercosporella herpotrichoides in crops)

IT 252955-11-6D, derivs.

RL: AGR (Agricultural use); BSU (Biological study, unclassified); BIOL (Biological study); USES (Uses)

(as fungicides for controlling Pseudocercosporella herpotrichoides in crops)

RE.CNT 4 THERE ARE 4 CITED REFERENCES AVAILABLE FOR THIS RECORD RE

- (1) American Cyanamid Co; EP 0897904 A 1999 HCAPLUS
- (2) American Cyanamid Co; EP 1023835 A 2000 HCAPLUS
- (3) Leadbitter, N; WO 0180643 A 2001 HCAPLUS
- (4) Novartis Erfind Verwalt Gmbh; WO 0072677 A 2000 HCAPLUS

=> b reg
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STRUCTURE FILE UPDATES: 30 AUG 2004 HIGHEST RN 736108-36-4 DICTIONARY FILE UPDATES: 30 AUG 2004 HIGHEST RN 736108-36-4

TSCA INFORMATION NOW CURRENT THROUGH MAY 21, 2004

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Crossover limits have been increased. See HELP CROSSOVER for details.

Experimental and calculated property data are now available. For more information enter HELP PROP at an arrow prompt in the file or refer to the file summary sheet on the web at: http://www.cas.org/ONLINE/DBSS/registryss.html

#### => d ide 13 tot

- L3 ANSWER 1 OF 5 REGISTRY COPYRIGHT 2004 ACS on STN
- RN 252955-12-7 REGISTRY
- CN Methanone, (3-chloro-6-hydroxy-2-methylphenyl)(2,3,4-trimethoxy-6-methylphenyl)- (9CI) (CA INDEX NAME)

OTHER NAMES:

- CN 1-(3-Chloro-6-hydroxy-2-methylphenyl)-1-(2,3,4-trimethoxy-6-methylphenyl)methanone
- FS 3D CONCORD
- MF C18 H19 Cl O5
- CI COM
- SR CA
- LC STN Files: CA, CAPLUS, USPAT2, USPATFULL
- DT.CA CAplus document type: Patent
- RL.P Roles from patents: BIOL (Biological study); PREP (Preparation); RACT (Reactant or reagent); USES (Uses)

# \*\*PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT\*\*

- 5 REFERENCES IN FILE CA (1907 TO DATE)
- 5 REFERENCES IN FILE CAPLUS (1907 TO DATE)
- L3 ANSWER 2 OF 5 REGISTRY COPYRIGHT 2004 ACS on STN
- RN 252955-11-6 REGISTRY
- CN Methanone, (2-hydroxy-6-methylphenyl)(2,3,4-trimethoxy-6-methylphenyl)(9CI) (CA INDEX NAME)
- FS 3D CONCORD
- MF C18 H20 O5
- SR CA
- LC STN Files: CA, CAPLUS, USPATFULL
- DT.CA CAplus document type: Patent
- RL.P Roles from patents: BIOL (Biological study); PREP (Preparation); USES (Uses)
- RLD.P Roles for non-specific derivatives from patents: BIOL (Biological study); USES (Uses)

# \*\*PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT\*\*

- 3 REFERENCES IN FILE CA (1907 TO DATE)
- 1 REFERENCES TO NON-SPECIFIC DERIVATIVES IN FILE CA
- 3 REFERENCES IN FILE CAPLUS (1907 TO DATE)
- L3 ANSWER 3 OF 5 REGISTRY COPYRIGHT 2004 ACS on STN
- RN 252955-10-5 REGISTRY
- CN Methanone, (3-bromo-6-hydroxy-2-methylphenyl) (2,3,4-trimethoxy-6-methylphenyl) (9CI) (CA INDEX NAME)
- FS 3D CONCORD
- MF C18 H19 Br O5
- CI COM
- SR CA
- LC STN Files: CA, CAPLUS, USPATFULL
- DT.CA CAplus document type: Patent
- RL.P Roles from patents: BIOL (Biological study); PREP (Preparation); USES (Uses)

# \*\*PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT\*\*

- 3 REFERENCES IN FILE CA (1907 TO DATE)
- 3 REFERENCES IN FILE CAPLUS (1907 TO DATE)
- L3 ANSWER 4 OF 5 REGISTRY COPYRIGHT 2004 ACS on STN
- RN 220900-12-9 REGISTRY
- CN Methanone, (3-chloro-6-methoxy-2-methylphenyl)(2,3,4-trimethoxy-6-methylphenyl)- (9CI) (CA INDEX NAME)
- FS 3D CONCORD
- MF C19 H21 Cl O5
- CI COM
- SR CA
- LC STN Files: CA, CAPLUS, USPAT2, USPATFULL
- DT.CA CAplus document type: Patent
- RL.P Roles from patents: BIOL (Biological study); PREP (Preparation); USES (Uses)
- RLD.P Roles for non-specific derivatives from patents: BIOL (Biological study); USES (Uses)

#### \*\*PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT\*\*

- 3 REFERENCES IN FILE CA (1907 TO DATE)
- 1 REFERENCES TO NON-SPECIFIC DERIVATIVES IN FILE CA
- 3 REFERENCES IN FILE CAPLUS (1907 TO DATE)
- L3 ANSWER 5 OF 5 REGISTRY COPYRIGHT 2004 ACS on STN
- RN 220899-03-6 REGISTRY
- CN Methanone, (3-bromo-6-methoxy-2-methylphenyl)(2,3,4-trimethoxy-6-methylphenyl)- (9CI) (CA INDEX NAME)

OTHER NAMES:

- CN Metrafenone
- FS 3D CONCORD
- MF C19 H21 Br O5
- CI COM
- SR CA

LC STN Files: CA, CAPLUS, CASREACT, CBNB, TOXCENTER, USPATZ, USPATFULL

DT.CA CAplus document type: Journal; Patent

RL.P Roles from patents: BIOL (Biological study); PREP (Preparation); RACT (Reactant or reagent); USES (Uses)

RLD.P Roles for non-specific derivatives from patents: BIOL (Biological study); USES (Uses)

RL.NP Roles from non-patents: BIOL (Biological study); USES (Uses)

#### \*\*PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT\*\*

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3 REFERENCES TO NON-SPECIFIC DERIVATIVES IN FILE CA

14 REFERENCES IN FILE CAPLUS (1907 TO DATE)

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FILE LAST UPDATED: 26 AUG 2004 <20040826/UP>
MOST RECENT DERWENT UPDATE: 200455 <200455/DW>
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  FIRST VIEW FILE WPIFV.
  FOR FURTHER DETAILS: http://www.thomsonderwent.com/dwpifv <<<
- >>> NEW DISPLAY FORMAT HITSTR ADDED ALLOWING DISPLAY OF HIT STRUCTURES WITHIN THE BIBLIOGRAPHIC DOCUMENT <><

### => d all 14

L4 ANSWER 1 OF 1 WPIX COPYRIGHT 2004 THOMSON DERWENT on STN

AN 2004-143018 [14] WPIX

DNC C2004-057621

TI Controlling Pseudocercosporella herpotrichoides in crop plants, especially

```
wheat or barley, comprises use of hepta-substituted benzophenone
     derivatives.
DC
     C03
     AMMERMANN, E; COTTER, H V T; GEWEHR, M; MULLER, B; ORTH, A; ROSE, I;
IN
     MUELLER, B; VAN TUYL COTTER, H
     (AMME-I) AMMERMANN E; (COTT-I) COTTER H V T; (GEWE-I) GEWEHR M; (MULL-I)
PA
     MULLER B; (ORTH-I) ORTH A; (ROSE-I) ROSE I; (BADI) BASF AG
CYC
    105
                     A1 20040122 (200414)* GE
                                                17
                                                      A01N035-04
     WO 2004006675
ΡI
        RW: AT BE BG CH CY CZ DE DK EA EE ES FI FR GB GH GM GR HU IE IT KE LS
            LU MC MW MZ NL OA PT RO SD SE SI SK SL SZ TR TZ UG ZM ZW
         W: AE AG AL AM AT AU AZ BA BB BG BR BY BZ CA CH CN CO CR CU CZ DE DK
            DM DZ EC EE ES FI GB GD GE GH GM HR HU ID IL IN IS JP KE KG KP KR
            KZ LC LK LR LS LT LU LV MA MD MG MK MN MW MX MZ NI NO NZ OM PG PH
            PL PT RO RU SC SD SE SG SK SL SY TJ TM TN TR TT TZ UA UG UZ VC VN
            YU ZA ZM ZW
                                                       A01N035-00
     US 2004063793 A1 20040401 (200425)
                    A1 20040202 (200450)
                                                      A01N035-04
     AU 2003250897
    WO 2004006675 A1 WO 2003-EP7255 20030707; US 2004063793 A1 Provisional US
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     2002-394932P 20020711, US 2003-616950 20030711; AU 2003250897 A1 AU
     2003-250897 20030707
FDT AU 2003250897 Al Based on WO 2004006675
                          20020711; US 2003-616950 20030711
PRAI US 2002-394932P
     ICM A01N035-00; A01N035-04
IC
     WO2004006675 A UPAB: 20040226
AΒ
     NOVELTY - The use of 2',6-dimethyl-5-halo-2,4',5',6'-tetramethoxy- or
     2-hydroxy-4',5',6'-trimethoxy-benzophenones (I) for controlling
     Pseudocercosporella herpotrichoides in crop plants is new.
          DETAILED DESCRIPTION - The use of 2',6-dimethyl-5-halo-2,4',5',6'-
     tetramethoxy- or 2-hydroxy-4',5',6'-trimethoxy-benzophenones of formula
     (I) for controlling Pseudocercosporella herpotrichoides in crop plants is
          R = H \text{ or } 1-4C \text{ alkyl; and}
          Hal = F, Cl or Br.
          ACTIVITY - Fungicide.
          In tests with wheat seedlings, pre-treatment with
     5-bromo-2',6-dimethyl-2,4',5',6'-tetramethoxy-benzophenone (Ia) at a
     concentration of 63 ppm before contact with Pseudocercosporella
     herpotrichoides spores reduced the degree of infection 40 days later from
     100% (in untreated controls) to 0-25%.
          MECHANISM OF ACTION - None given in the source material.
          USE - Especially for controlling Pseudocercosporella herpotrichoides
     in wheat or barley (claimed).
          ADVANTAGE - The known fungicides (I) (described in EP727141-A,
     EP897141-A and EP967196-A) have been found to show excellent activity
     against Pseudocercosporella herpotrichoides
     Dwg.0/0
     CPI
FS
     AB; GI; DCN
FΑ
     CPI: C10-E02; C10-F02; C14-A04
MC
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FILE 'HOME' ENTERED AT 11:09:52 ON 01 SEP 2004
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of this information, without the prior written consent of CAS, is strictly prohibited.

FILE COVERS 1907 - 1 Sep 2004 VOL 141 ISS 10 FILE LAST UPDATED: 31 Aug 2004 (20040831/ED)

This file contains CAS Registry Numbers for easy and accurate substance identification.

'OBI' IS DEFAULT SEARCH FIELD FOR 'HCAPLUS' FILE

=> d all fhitstr hitrn 117

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L17 ANSWER 1 OF 1 HCAPLUS COPYRIGHT 2004 ACS on STN
    2004:60223 HCAPLUS
AN
     140:106945
DN
    Entered STN: 26 Jan 2004
ED
    Use of benzophenones as fungicides for controlling
TI
     Pseudocercosporella herpotrichoides
    Gewehr, Markus; Rose, Ingo; Mueller, Bernd; Ammermann, Eberhard; Orth,
IN
     Ann; Van Tuyl Cotter, Henry
     BASF Aktiengesellschaft, Germany
PA
     PCT Int. Appl., 17 pp.
SO
     CODEN: PIXXD2
DT
     Patent
    German
LA
    ICM A01N035-04
IC
     5-2 (Agrochemical Bioregulators)
CC
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L'ALV.									APPLICATION NO.						DATE			
									WO 2003-EP7255									
ΡI	WO	WU 2004006675			A1 20040122			BA, BB, BG, BR, BY, E					חמ	20030707 \				
		W:	ΑE,	AG,	AL,	AM,	AT,	ΑU,	AZ,	BA,	BB,	BG,	BR,	BY,	BZ,	CA,	CH,	CN,
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			GM,	HR,	HU,	ID,	IL,	IN,	IS,	JP,	KE,	KG,	KΡ,	KR,	KΖ,	LC,	LK,	LR,
			LS,	LT,	LU,	LV,	MA,	MD,	MG,	MK,	MN,	MW,	MX,	MZ,	NΙ,	NO,	ΝZ,	OM,
			PG.	PH,	PL.	PT.	RO.	RU.	SC.	SD,	SE,	SG,	SK,	SL,	SY,	ТJ,	TM,	TN,
			TP	TT,	TZ,	IIA.	UG.	UZ.	VC.	VN.	YU.	ZA.	ZM.	ZW,	AM,	AZ,	BY,	KG,
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		DW.		GM,			MIM	MZ	מפ	SI.	97	TZ	HG	7.M .	7.W .	AT.	BE.	BG.
		KW:	Gn,	CY,	CE,	DE,	DV.	PP,	EC,	ET,	ED,	GB,	GD,	ш,	TE.	TT'	T.II	MC.
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			GW,	ML,	MR,	NΕ,	SN,	TD,	TG									
US 2004063793				A1 20040401			1	US 2003-616950					20030711 <					
PRAI	US	2002	-394	932P		P		2002	0711	<-	-							
CLAS	S																	
		NO.											COD	ES				
WO	WO 2004006675 ICM					A01N	035-	04										

OS MARPAT 140:106945

GΙ

AB Benzophenones (I, R = H or C1-C4 alkyl; X = F, Cl, Br) are useful as fungicides for controlling Pseudocercosporella herpotrichoides in cultivated plants. Thus, the incidence of eyespot disease in wheat inoculated with P. herpotrichoides was 0-25% when plants had been treated with 63 ppm I (R = Me or H; X = Br or Cl), whereas 100% of untreated plants were infected.

ST benzophenone fungicide Pseudocercosporella control

IT Fungicides

Hordeum vulgare

Oculimacula yallundae

(benzophenones as fungicides for controlling

Pseudocercosporella herpotrichoides in crops)

IT Triticum aestivum

(disease, eyespot; benzophenones as fungicides for controlling

Pseudocercosporella herpotrichoides in crops)

IT 220899-03-6 220900-12-9 252955-10-5

252955-12-7

RL: AGR (Agricultural use); BSU (Biological study, unclassified); BIOL (Biological study); USES (Uses)

(as fungicide for controlling Pseudocercosporella

herpotrichoides in crops)

IT 252955-11-6D, derivs.

RL: AGR (Agricultural use); BSU (Biological study, unclassified); BIOL (Biological study); USES (Uses)

(as fungicides for controlling Pseudocercosporella

herpotrichoides in crops)

RE.CNT 4 THERE ARE 4 CITED REFERENCES AVAILABLE FOR THIS RECORD

RE

- (1) American Cyanamid Co; EP 0897904 A 1999 HCAPLUS
- (2) American Cyanamid Co; EP 1023835 A 2000 HCAPLUS
- (3) Leadbitter, N; WO 0180643 A 2001 HCAPLUS
- (4) Novartis Erfind Verwalt Gmbh; WO 0072677 A 2000 HCAPLUS

IT 220899-03-6

RL: AGR (Agricultural use); BSU (Biological study, unclassified); BIOL (Biological study); USES (Uses)

(as fungicide for controlling Pseudocercosporella

herpotrichoides in crops)

RN 220899-03-6 HCAPLUS

CN Methanone, (3-bromo-6-methoxy-2-methylphenyl) (2,3,4-trimethoxy-6-methylphenyl) - (9CI) (CA INDEX NAME)

IT 220899-03-6 220900-12-9 252955-10-5

252955-12-7

RL: AGR (Agricultural use); BSU (Biological study, unclassified); BIOL
(Biological study); USES (Uses)
 (as fungicide for controlling Pseudocercosporella
 herpotrichoides in crops)

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ICM C07C045-46
         C07C045-81; C07C049-84; C07C051-60; C07C051-363
     25-16 (Benzene, Its Derivatives, and Condensed Benzenoid Compounds)
FAN.CNT 1
     PATENT NO.
                         KIND
                                DATE
                                            APPLICATION NO.
                                -----
PΙ
     WO 2004054953
                         A1
                                20040701
                                           WO 2003-EP13483
                                                                   20031201 <--
         W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN,
             CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE,
             GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK,
             LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NI, NO, NZ,
             OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM,
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         RW: BW, GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AT, BE,
             BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU,
             MC, NL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN,
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PRAI DE 2002-10258669
                                20021213 <--
                         Α
CLASS
 PATENT NO.
                 CLASS PATENT FAMILY CLASSIFICATION CODES
 WO 2004054953
                 ICM
                        C07C045-46
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C07C045-81; C07C049-84; C07C051-60; C07C051-363

ICS

CASREACT 141:71349

os

GI

AB Benzophenones [I; X = Cl, OH, OMe, Cl-6 alkylcarbonyloxy; Y = Cl, Br] were prepared by reacting an acid chloride II (X, Y as above) with 3,4,5-trimethoxytoluene. The reaction is carried out (1) in the presence of an aromatic diluent selected from chlorobenzene, benzotrifluoride, or nitrobenzene, (2) in the presence of 0.01-0.02 mol% Fe catalyst (based on the acid chloride), and (3) at a temperature between 60.degree. to a b.p. of

diluent. Thus, a solution of 5-bromo-2-methoxy-6-methylbenzoyl chloride and anhydrous FeCl3 in chlorobenzene was dosed to a solution of 3,4,5-trimethoxytoluene in chlorobenzene for 4 h at 145.degree. followed by stirring for 2 h at room temperature to give 99% (5-bromo-2-methoxy-6-methylphenyl) (2,3,4-trimethoxy-6-methylphenyl) methanone with a selectivity of 99.4%.

ST bromomethoxymethylphenyltrimethoxymethylphenylmethanone prepn; methanone bromomethoxymethylphenyl trimethoxymethylphenyl prepn; trimethoxytoluene bromomethoxymethylbenzoyl chloride Friedel Crafts acylation iron chloride IT Friedel-Crafts reaction

(Friedel-Crafts acylation of 3,4,5-trimethoxytoluene with acid chloride, for production of benzophenones by)

IT Friedel-Crafts reaction catalysts
(method for production of benzophenones by Friedel-Crafts acylation of

3,4,5-trimethoxytoluene with acid chloride)

IT 7705-08-0, Iron chloride, uses

RL: CAT (Catalyst use); USES (Uses)

(Friedel-Crafts acylation catalyst; method for production of benzophenones by Friedel-Crafts acylation of 3,4,5-trimethoxytoluene with acid chloride)

IT 98-08-8, Benzotrifluoride 98-95-3, Nitrobenzene, uses 108-90-7,

Chlorobenzene, uses

RL: NUU (Other use, unclassified); USES (Uses)

(diluent; for production of benzophenones by Friedel-Crafts acylation of 3,4,5-trimethoxytoluene with acid chloride)

IT 220899-03-6P

RL: IMF (Industrial manufacture); SPN (Synthetic preparation); PREP (Preparation)

(method for production of benzophenones by Friedel-Crafts acylation of 3,4,5-trimethoxytoluene with acid chloride)

IT 6161-65-5, Benzoic acid, 2-methoxy-6-methyl- 6443-69-2,

3,4,5-Trimethoxytoluene

RL: RCT (Reactant); RACT (Reactant or reagent)

(method for production of benzophenones by Friedel-Crafts acylation of 3,4,5-trimethoxytoluene with acid chloride)

IT 220901-25-7P 712273-62-6P

RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)

(method for production of benzophenones by Friedel-Crafts acylation of 3,4,5-trimethoxytoluene with acid chloride)

RE.CNT 3 THERE ARE 3 CITED REFERENCES AVAILABLE FOR THIS RECORD

RE

- (1) American Cyanamid Co; EP 0897904 A 1999 HCAPLUS
- (2) Basf Ag; wO 0151440 A 2001 HCAPLUS
- (3) Basf Ag; EP 1295877 A 2003 HCAPLUS

IT 220899-03-6P

RL: IMF (Industrial manufacture); SPN (Synthetic preparation); PREP (Preparation)

(method for production of benzophenones by Friedel-Crafts acylation of 3,4,5-trimethoxytoluene with acid chloride)

RN 220899-03-6 HCAPLUS

CN Methanone, (3-bromo-6-methoxy-2-methylphenyl)(2,3,4-trimethoxy-6-methylphenyl)- (9CI) (CA INDEX NAME)

- L31 ANSWER 2 OF 27 HCAPLUS COPYRIGHT 2004 ACS on STN
- AN 2004:451736 HCAPLUS
- DN 140:419309
- ED Entered STN: 04 Jun 2004
- TI Synergistic fungicidal mixtures for rice containing metrafenone and a triazolopyrimidine derivative
- IN Tormo I Blasco, Jordi; Grote, Thomas; Ammermann, Eberhard; Stierl, Reinhard; Strathmann, Siegfried; Schoefl, Ulrich

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BASF Aktiengesellschaft, Germany
PA
SO
    PCT Int. Appl., 14 pp.
    CODEN: PIXXD2
DT
    Patent
LΑ
    German
IC
    ICM A01N035-00
    5-2 (Agrochemical Bioregulators)
CC
FAN.CNT 1
                                         APPLICATION NO.
                                                               DATE
    PATENT NO.
                       KIND
                              DATE
                                         ______
                              _____
                       ----
                              20040603
                                         WO 2003-EP12769
                                                               20031114 <--
PΙ
    WO 2004045288
                        A2
                              20040729
    WO 2004045288
                        A3
           AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN,
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        RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AT, BE, BG,
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            NL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ,
            GW, ML, MR, NE, SN, TD, TG
PRAI DE 2002-10253586
                              20021115
                        Α
CLASS
PATENT NO.
               CLASS PATENT FAMILY CLASSIFICATION CODES
                      _____
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WO 2004045288
               ICM
                      A01N035-00
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GI

- AB Disclosed are fungicidal mixts. for controlling rice pathogens, containing synergistically effective amts. of metrafenone(I), and triazolopyrimidine derivative II.
- ST synergism fungicide rice metrafenone triazolopyrimidine deriv

Ι

IT Pyricularia oryzae

(control by synergistic fungicidal mixts. for rice containing metrafenone and a triazolopyrimidine derivative)

II

IT Oryza sativa

(synergistic fungicidal mixts. for rice containing metrafenone and a triazolopyrimidine derivative)

IT Fungicides

(synergistic, agrochem.; synergistic fungicidal mixts. for rice containing metrafenone and a triazolopyrimidine derivative)

IT 692736-85-9

RL: AGR (Agricultural use); BIOL (Biological study); USES (Uses) (synergistic fungicidal mixture for rice)

IT 692736-85-9

RL: AGR (Agricultural use); BIOL (Biological study); USES (Uses) (synergistic fungicidal mixture for rice)

RN 692736-85-9 HCAPLUS

CN Methanone, (3-bromo-6-methoxy-2-methylphenyl) (2,3,4-trimethoxy-6-methylphenyl)-, mixt. with 5-chloro-7-(4-methyl-1-piperidinyl)-6-(2,4,6-trifluorophenyl)[1,2,4]triazolo[1,5-a]pyrimidine (9CI) (CA INDEX NAME)

CM 1

CRN 220899-03-6 CMF C19 H21 Br O5

CM 2

CRN 214706-53-3 CMF C17 H15 Cl F3 N5

L31 ANSWER 3 OF 27 HCAPLUS COPYRIGHT 2004 ACS on STN

AN 2004:387216 HCAPLUS

DN 140:370223

ED Entered STN: 13 May 2004

TI Synergistic fungicide mixtures containing an oxazinone derivative

IN Rheinheimer, Joachim; Grote, Thomas; Ammermann, Eberhard; Stierl, Reinhard; Strathmann, Siegfried; Schoefl, Ulrich

PA BASF Aktiengesellschaft, Germany

SO PCT Int. Appl., 26 pp. CODEN: PIXXD2

DT Patent

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LΑ
     German
IC
     ICM A01N043-86
     ICS A01N043-84; A01N043-653; A01N043-56; A01N043-54; A01N043-40;
          A01N043-30; A01N037-52; A01N037-44; A01N037-38; A01N035-04
     5-2 (Agrochemical Bioregulators)
CC
FAN.CNT 1
     PATENT NO.
                                              APPLICATION NO.
                                                                        DATE
                          KIND
                                  DATE
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                                  20040513
                                             WO 2003-EP11226
                                                                        20031010 <--
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     WO 2004039157
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             PH, PL, PT, RO, RU, SD, SE, SG, SK, SL, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW, AM, AZ, BY, KG, KZ, MD,
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PRAI DE 2002-10250278
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                           Α
CLASS
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 PATENT NO.
                         ______
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 WO 2004039157
                  ICM
                         A01N043-86
                         A01N043-84; A01N043-653; A01N043-56; A01N043-54;
                  ICS
                         A01N043-40; A01N043-30; A01N037-52; A01N037-44;
                         A01N037-38; A01N035-04
OS
     MARPAT 140:370223
GΙ
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- AB The invention relates to synergistic fungicide mixts. containing an oxazine I (R1 = Pr or Bu; R2 = Me, Et or Pr; R3 = F, Cl, Br or I) and at least one known fungicide.
- ST synergism fungicide mixt oxazinone deriv
- IT Fungicides
- (synergistic, agrochem.; mixts. containing an oxazinone derivative) 60207-90-1D, Propiconazole, mixts. with oxazinone derivs. IT Fenpropidin, mixts. with oxazinone derivs. 67564-91-4D, Fenpropimorph, mixts. with oxazinone derivs. 81412-43-3D, Tridemorph, mixts. with oxazinone derivs. 107534-96-3D, Tebuconazole, mixts. with oxazinone 110488-70-5D, Dimethomorph, mixts. with oxazinone derivs. 117428-22-5D, Picoxystrobin, mixts. with oxazinone derivs. Spiroxamine, mixts. with oxazinone derivs. 125116-23-6D, Metconazole, mixts. with oxazinone derivs. 131860-33-8D, Azoxystrobin, mixts. with oxazinone derivs. 133855-98-8D, Epoxiconazole, mixts. with oxazinone derivs. 141517-21-7D, Trifloxystrobin, mixts. with oxazinone derivs. 143390-89-0D, Kresoxim-methyl, mixts. with oxazinone derivs.

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149961-52-4D, Dimoxystrobin, mixts. with oxazinone derivs.
                                                                  175013-18-0D,
     Pyraclostrobin, mixts. with oxazinone derivs. 178928-70-6D,
     Prothioconazole, mixts. with oxazinone derivs.
                                                     180409-60-3D,
     Cyflufenamid, mixts. with oxazinone derivs. 188425-85-6D, Nicobifen,
    mixts. with oxazinone derivs. 220899-03-6D, mixts. with
     oxazinone derivs. 221201-92-9D, mixts. with oxazinone derivs.
     RL: AGR (Agricultural use); BIOL (Biological study); USES (Uses)
        (synergistic fungicides)
     220899-03-6D, mixts. with oxazinone derivs.
IT
     RL: AGR (Agricultural use); BIOL (Biological study); USES (Uses)
        (synergistic fungicides)
     220899-03-6 HCAPLUS
RN
     Methanone, (3-bromo-6-methoxy-2-methylphenyl) (2,3,4-trimethoxy-6-
CN
     methylphenyl) - (9CI) (CA INDEX NAME)
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L31
     ANSWER 4 OF 27 HCAPLUS COPYRIGHT 2004 ACS on STN
     2004:2594 HCAPLUS
AN
     140:37411
DN
ED
     Entered STN: 02 Jan 2004
     Synergistic fungicidal mixtures based on benzamidoxime derivatives,
TI
     benzophenones, and an azole
     Ammermann, Eberhard; Stierl, Reinhard; Schoefl, Ulrich; Strathmann,
IN
     Siegfried; Schelberger, Klaus; Scherer, Maria; Haden, Egon
PA
     Basf Aktiengesellschaft, Germany
SO
     PCT Int. Appl., 33 pp.
     CODEN: PIXXD2
DT
     Patent
     German
LA
     ICM A01N037-52
TC
     ICS A01N035-04; A01N043-653; A01N043-56
     5-2 (Agrochemical Bioregulators)
CC
FAN.CNT 1
                                                                   DATE
                                DATE
                                            APPLICATION NO.
     PATENT NO.
                         KIND
                                            _____
                         _ _ _ _
                                                                   20030606 <--
     WO 2004000019
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                                20031231
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PΙ
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             PL, PT, RO, RU, SD, SE, SG, SK, SL, TJ, TM, TN, TR, TT, TZ, UA,
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             GW, ML, MR, NE, SN, TD, TG
PRAI DE 2002-10227656
                          Α
                                20020620 <--
CLASS
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$$R^{1}$$
  $O$   $Me$   $R^{2}$   $R^{4}O$   $OMe$   $II$ 

AB Fungicidal mixts. contain synergistically effective amts. of the following active constituents: (1) N-[[(cyclopropylmethoxy)amino][6-(difluoromethoxy)-2,3-difluorophenyl]methylene]benzeneacetamide (I) or a derivative wherein the benzeneacetamide moiety may have 1-3 substituents on the Ph ring chosen from among halo, C1-C4 alkyl, C1-C4 alkyl halide, or C1-C4 (halo)alkoxy; (2) a benzophenone (II), in which R1 = C1, Me, MeO, AcO, pivaloyloxy, or OH; R2 = C1 or Me; R3 = H, halo, or Me; and R4 = C1-C6 alkyl or benzyl, whereby the Ph portion of the benzyl radical can substituted by halo or Me; (3) epoxiconazole and, optionally; (4) pyraclostrobin. Thus, I + metrafenone + epoxiconazole at 0.25 + 0.25 + 1 ppm (1:1:4 mixture) synergistically controlled wheat powdery mildew caused by Erysiphe graminis tritici.

synergism fungicide benzamidoxime deriv benzophenone azole; epoxiconazole benzamidoxime deriv benzophenone fungicide synergism; pyraclostrobin benzamidoxime deriv benzophenone fungicide synergism

IT Fungicides

(synergistic; mixts. of benzamidoxime derivs. and benzophenones with epoxiconazole and pyraclostrobin)

IT 636603-37-7 636603-38-8

RL: AGR (Agricultural use); BSU (Biological study, unclassified); BIOL (Biological study); USES (Uses)

(as synergistic fungicide)

IT 133855-98-8D, Epoxiconazole, mixts. with benzamidoxime derivs. and benzophenones 175013-18-0D, Pyraclostrobin, mixts. with benzamidoxime derivs. and benzophenones 221201-92-9D, derivs., mixts. with benzamidoxime benzophenones and azole 636603-36-6D, derivs., mixts. with benzamidoxime derivs. and azole

RL: AGR (Agricultural use); BSU (Biological study, unclassified); BIOL (Biological study); USES (Uses)

(as synergistic fungicides)

RE.CNT 4 THERE ARE 4 CITED REFERENCES AVAILABLE FOR THIS RECORD RE

- (1) American Cyanamid Co; EP 1023834 A 2000 HCAPLUS
- (2) Leyendecker, J; WO 02056686 A 2002 HCAPLUS
- (3) Nippon Soda Co; EP 1077028 A 2001 HCAPLUS
- (4) Schelberger, K; WO 02062140 A 2002 HCAPLUS
- IT 636603-37-7 636603-38-8

RL: AGR (Agricultural use); BSU (Biological study, unclassified); BIOL (Biological study); USES (Uses)
(as synergistic fungicide)

RN 636603-37-7 HCAPLUS

Benzeneacetamide, N-[[(cyclopropylmethoxy)amino][6-(difluoromethoxy)-2,3-difluorophenyl]methylene]-, mixt. with (3-bromo-6-methoxy-2-methylphenyl)(2,3,4-trimethoxy-6-methylphenyl)methanone and rel-1-[[(2R,3S)-3-(2-chlorophenyl)-2-(4-fluorophenyl)oxiranyl]methyl]-1H-1,2,4-triazole (9CI) (CA INDEX NAME)

CM 1

CN

CRN 221201-92-9 CMF C20 H18 F4 N2 O3

$$\begin{array}{c|c}
 & O \\
 & Ph-CH_2-C-NH \\
 & CH_2-O-N \\
\hline
 & F_2CH-O
\end{array}$$

CM 2

CRN 220899-03-6 CMF C19 H21 Br O5

CM 3

CRN 133855-98-8

CMF C17 H13 Cl F N3 O

Relative stereochemistry.

RN 636603-38-8 HCAPLUS
CN Carbamic acid, [2-[[[1-(4-chlorophenyl)-1H-pyrazol-3-yl]oxy]methyl]phenyl]methoxy-, methyl ester, mixt. with (3-bromo-6-methoxy-2-methylphenyl)(2,3,4-trimethoxy-6-methylphenyl)methanone and N-[[(cyclopropylmethoxy)amino][6-(difluoromethoxy)-2,3-difluorophenyl]methylene]benzeneacetamide (9CI) (CA INDEX NAME)

CM 1

CRN 221201-92-9 CMF C20 H18 F4 N2 O3

CM 2

CRN 220899-03-6 CMF C19 H21 Br O5

CM 3

CRN 175013-18-0

CMF C19 H18 Cl N3 O4

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OMe
```

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ANSWER 5 OF 27 HCAPLUS COPYRIGHT 2004 ACS on STN
L31
     2003:875033 HCAPLUS
AN
DN
     139:334300
ED
     Entered STN: 07 Nov 2003
ΤI
     Synergistic fungicidal mixtures comprising prothioconazole
IN
     Ammermann, Eberhard; Stierl, Reinhard; Lorenz, Gisela; Schoefl, Ulrich;
     Strathmann, Siegfried; Schelberger, Klaus; Christen, Thomas
PΑ
     Basf Aktiengesellschaft, Germany
SO
     PCT Int. Appl., 48 pp.
     CODEN: PIXXD2
DT
     Patent
LA
     German
IC
     ICM A01N043-653
         A01N047-34; A01N047-26; A01N047-18; A01N043-78; A01N043-50;
          A01N043-42; A01N043-40; A01N043-36; A01N043-32; A01N037-52;
          A01N037-46; A01N037-38; A01N035-06; A01N035-04; A01N033-18
CC
     5-2 (Agrochemical Bioregulators)
FAN.CNT 1
     PATENT NO.
                         KIND
                                DATE
                                            APPLICATION NO.
                                                                  DATE
                         ----
                               20031106
PΙ
     WO 2003090538
                         A1
                                          WO 2003-EP2845
                                                                   20030319 <--
         W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN,
             CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH,
             GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR,
             LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NI, NO, NZ, OM,
             PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW, AM, AZ, BY, KG, KZ,
             MD, RU, TJ, TM
         RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AT, BE, BG,
             CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC,
             NL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ,
             GW, ML, MR, NE, SN, TD, TG
PRAI DE 2002-10212704
                                20020321 <--
                         Α
CLASS
 PATENT NO.
                 CLASS PATENT FAMILY CLASSIFICATION CODES
                        ______
 WO 2003090538
                 ICM
                        A01N043-653
                 ICS
                        A01N047-34; A01N047-26; A01N047-18; A01N043-78;
                        A01N043-50; A01N043-42; A01N043-40; A01N043-36;
                        A01N043-32; A01N037-52; A01N037-46; A01N037-38;
                        A01N035-06; A01N035-04; A01N033-18
     The invention relates to a fungicidal mixture that comprises prothioconazole
AB
     or its salts or adducts and at least one further fungicidal composition,
     selected from compds. such as boscalid, carboxine, metrafenone,
     quinoxyfen, dithianon, thiram, mepiquat chloride, cyazofamid, fenoxanil,
     thiophanate Me, carbendazim, metalaxyl, fludioxonil, thiabendazole,
```

quintozene, prochloraz or anthraquinone, in a synergistically effective

```
amount
st
     synergism fungicide prothioconazole mixt
IT
     Fungicides
        (synergistic; mixts. comprising prothioconazole)
                   319920-19-9
IT
     215246-03-0
                                 345205-96-1 616235-45-1
                                                             616235-46-2,
     Prothioconazole-carboxin mixture 616235-47-3
                                                    616235-48-4
                 616235-50-8
                                616235-51-9
                                               616235-52-0
     616235-49-5
                                                             616235-53-1
                                               616235-57-5
     616235-54-2
                   616235-55-3
                                 616235-56-4
                                                             616235-58-6
     616235-59-7
                   616235-60-0
                                 616235-61-1
     RL: AGR (Agricultural use); BIOL (Biological study); USES (Uses)
        (synergistic fungicidal composition)
IT
     178928-70-6D, Prothioconazole, mixts. containing
     RL: AGR (Agricultural use); BIOL (Biological study); USES (Uses)
        (synergistic fungicidal compns.)
              THERE ARE 3 CITED REFERENCES AVAILABLE FOR THIS RECORD
RE.CNT
RE
(1) Astrid, M; WO 9847370 A 1998 HCAPLUS
(2) Stenzel, K; WO 9847367 A 1998 HCAPLUS
(3) Wieland, K; WO 0180641 A 2001
IT
     616235-47-3
     RL: AGR (Agricultural use); BIOL (Biological study); USES (Uses)
        (synergistic fungicidal composition)
RN
     616235-47-3 HCAPLUS
     3H-1,2,4-Triazole-3-thione, 2-[2-(1-chlorocyclopropyl)-3-(2-chlorophenyl)-
CN
     2-hydroxypropyl]-1,2-dihydro-, mixt. with (3-bromo-6-methoxy-2-
     methylphenyl)(2,3,4-trimethoxy-6-methylphenyl)methanone (9CI) (CA INDEX
     NAME)
     CM
          1
     CRN
         220899-03-6
     CMF
         C19 H21 Br O5
```

CM 2

CRN 178928-70-6

CMF C14 H15 Cl2 N3 O S

$$\begin{array}{c|c} & & & \\ & & & \\ N & & & \\ N &$$

```
L31 ANSWER 6 OF 27 HCAPLUS COPYRIGHT 2004 ACS on STN
AN
    2003:356023 HCAPLUS
    138:337828
DN
    Entered STN: 09 May 2003
ED
    Preparation of diphenylmethanol derivatives as agricultural fungicides
TI
    Rose, Ingo; Tormo i Blasco, Jordi; Gewehr, Markus; Grammenos, Wassilios;
IN
    Mueller, Bernd; Rheinheimer, Joachim; Schaefer, Peter; Schieweck, Frank;
    Grote, Thomas; Gypser, Andreas; Ammermann, Eberhard; Lorenz, Gisela;
    Stierl, Reinhard; Strathmann, Siegfried; Carter, Paul; Curtze, Juergen
PA
    BASF Aktiengesellschaft, Germany
SO
    Eur. Pat. Appl., 58 pp.
    CODEN: EPXXDW
    Patent
DT
    German
LΑ
IC
    ICM C07C069-14
    ICS C07C039-42; C07C323-19; A01N031-14; A01N031-16; A01N033-10;
         A01N037-38; A01N037-40
CC
    25-7 (Benzene, Its Derivatives, and Condensed Benzenoid Compounds)
    Section cross-reference(s): 5
FAN.CNT 1
    PATENT NO.
                                        APPLICATION NO.
                                                               DATE
                       KTND
                              DATE
                              _____
                                         -----
                       _ _ _ _
                                         EP 2002-23344
PΙ
    EP 1308433
                        A1
                              20030507
                                                               20021018 <--
    EP 1308433
                       B1
                              20040428
        R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT,
            IE, SI, LT, LV, FI, RO, MK, CY, AL, TR, BG, CZ, EE, SK
                             20040515 AT 2002-23344
    AT 265414
                       Ε
                                                              20021018 <--
                                         JP 2002-313232
                                                               20021028 <--
                              20030722
    JP 2003206252
                        A2
                                         US 2002-282023
                                                               20021029 <--
    US 2003207938
                              20031106
                        A1
                              20040727
    US 6767923
                        B2
PRAI DE 2001-10153300
                        Α
                              20011031
                                       <--
CLASS
PATENT NO.
                CLASS PATENT FAMILY CLASSIFICATION CODES
_____
                ____
                      ______
EP 1308433
                ICM
                      C07C069-14
                      C07C039-42; C07C323-19; A01N031-14; A01N031-16;
                      A01N033-10; A01N037-38; A01N037-40
                      C07C043/23; C07C069/017; C07C323/25B
EP 1308433
                ECLA
                                                                        <--
os
    MARPAT 138:337828
GΙ
```

$$(R^2)_n$$
 $R^3$ 
 $R^5$ 
 $R^6$ 
OMe

Title compds. [I; X = O, S; R1, R3 = halo, cyano, NO2, SH, amino, alkyl, alkenyl, alkynyl, alkoxy, etc.; R2 = halo, cyano, NO2, SH, amino, alkyl, alkoxy, haloalkyl, haloalkoxy; n = 0-2; R4 = (halogenated) alkyl, alkenyl, alkynyl; R5, R6 = OH, alkyl, alkenyl, haloalkyl, haloalkenyl, alkoxy, alkenyloxy, haloalkoxy, haloalkenyloxy, etc.], were prepared Thus, 2.36 g 2,3,4-trimethoxy-6-methylbromobenzene and Mg cuttings in THF were refluxed with 1,2-dibromoethane for 40 min followed by stirring with 1.4 g 5-bromo-2-methoxy-6-methylbenzaldehyde for 2 h at 30.degree. to give 1.5 g I (X = O; R1, R5, R6 = OMe; R3, R4 = Me; R2 = 3-Br; n = 1). The latter at 4 or 16 ppm showed >70% control of powdery mildew on wheat.

Ι

ST diphenylmethanol prepn agricultural fungicide; methanol diphenyl prepn agricultural fungicide

IT Fungicides

(agrochem.; preparation of diphenylmethanol derivs. as agricultural fungicides)

IT 515861-96-8P 515861-99-1P 515862-02-9P
RL: AGR (Agricultural use); BSU (Biological study, unclassified); SPN
(Synthetic preparation); BIOL (Biological study); PREP (Preparation); USES
(Uses)

(preparation of diphenylmethanol derivs. as agricultural fungicides)

IT 72326-72-8 137644-93-0 **252955-12-7** 459836-90-9

RL: RCT (Reactant); RACT (Reactant or reagent)

(preparation of diphenylmethanol derivs. as agricultural fungicides) RE.CNT 3 THERE ARE 3 CITED REFERENCES AVAILABLE FOR THIS RECORD RE

- (1) American Cyanamid Co; EP 0727141 A 1996 HCAPLUS
- (2) Ici Plc; EP 0015756 A 1980 HCAPLUS
- (3) Mayer, D; US 3340294 A 1967 HCAPLUS
- IT 252955-12-7

RL: RCT (Reactant); RACT (Reactant or reagent)

(preparation of diphenylmethanol derivs. as agricultural fungicides)

RN 252955-12-7 HCAPLUS

CN Methanone, (3-chloro-6-hydroxy-2-methylphenyl)(2,3,4-trimethoxy-6methylphenyl)- (9CI) (CA INDEX NAME)

L31 ANSWER 7 OF 27 HCAPLUS COPYRIGHT 2004 ACS on STN

```
AN
     2003:242097 HCAPLUS
DN
     138:267201
ED
     Entered STN: 28 Mar 2003
     Pesticidal compositions for coating plant propagation material containing
TI
     anthranilamides
     Berger, Richard Alan; Flexner, John Lindsey
IN
PA
     E. I. Du Pont de Nemours & Co., USA
     PCT Int. Appl., 147 pp.
SO
     CODEN: PIXXD2
DT
     Patent
LA
     English
IC
     ICM A01N043-56
     5-4 (Agrochemical Bioregulators)
     Section cross-reference(s): 28
FAN.CNT 1
                                             APPLICATION NO.
     PATENT NO.
                                 DATE
                                                                        DATE
                          KIND
                                               _____
                          _ _ _ _
                                  _____
                                 20030327
                                            WO 2002-US30302
                                                                        20020910 <--
ΡI
     WO 2003024222
                          A1
         W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN,
             CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, OM, PH,
              PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW, AM, AZ, BY, KG, KZ, MD,
              RU, TJ, TM
         RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AT, BE, BG,
              CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL,
              PT, SE, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR,
              NE, SN, TD, TG
                                  20040616
                                             EP 2002-775972
                                                                        20020910 <--
     EP 1427285
                           A1
         R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT,
              IE, SI, LT, LV, FI, RO, MK, CY, AL, TR, BG, CZ, EE, SK
                        P
                                  20010921 <--
PRAI US 2001-323941P
                            W
                                  20020910 <--
     WO 2002-US30302
CLASS
                CLASS PATENT FAMILY CLASSIFICATION CODES
                         ______
_____
                 _____
                         A01N043-56
 WO 2003024222 ICM
os
   MARPAT 138:267201
GΙ
```

An invertebrate pest control composition for coating a propagule comprises (1) AB a biol. effective amount of an anthranilamide compds. I (Markush included), an N-oxide thereof or an agriculturally suitable salt thereof, and (2) a film former or adhesive agent. Arthropodicidal composition containing anthranilamide compds. I may further comprise addnl. biol. active compds. selected from arthropodicides of the group consisting of pyrethroids, carbamates, neonicotinoids, neuronal sodium channel blockers, insecticidal macrocyclic lactones, .gamma.-aminobutyric acid (GABA) antagonists, insecticidal ureas, and juvenile hormone mimics, and fungicides. propagule is a seed of cotton, maize, soybean, rice, etc., or a rhizome, tuber, bulb or corm, or viable division thereof, of potato, sweet potato, garden onion, tulip, daffodil, crocus hyacinth, etc., or is a stem or leaf cutting. arthropodicide insecticide anthranilamide prepn propagule seed STInsecticides TΤ (carbamate; in pesticidal compns. for plant propagation material containing anthranilamides) IT Leaf (cutting; pesticidal compns. containing anthranilamides for treatment of) IT Eubacteria Fungi Virus (entomopathogenic; in pesticidal compns. for plant propagation material containing anthranilamides) TT Adhesives Bacillus thuringiensis aizawai Bacillus thuringiensis kurstaki Baculoviridae Coating materials Fungicides GABA antagonists Gums and Mucilages Latex (in pesticidal compns. for plant propagation material containing anthranilamides) Macrolides IT RL: AGR (Agricultural use); BSU (Biological study, unclassified); BIOL (Biological study); USES (Uses) (in pesticidal compns. for plant propagation material containing anthranilamides) TΤ Acrylic polymers, biological studies RL: AGR (Agricultural use); TEM (Technical or engineered material use); BIOL (Biological study); USES (Uses) (in pesticidal compns. for plant propagation material containing anthranilamides) Fats and Glyceridic oils, biological studies RL: AGR (Agricultural use); TEM (Technical or engineered material use); BIOL (Biological study); USES (Uses) (in pesticidal compns. for plant propagation material containing anthranilamides) Gelatins, biological studies IT RL: AGR (Agricultural use); TEM (Technical or engineered material use); BIOL (Biological study); USES (Uses) (in pesticidal compns. for plant propagation material containing anthranilamides) IT RL: AGR (Agricultural use); TEM (Technical or engineered material use);

(in pesticidal compns. for plant propagation material containing

BIOL (Biological study); USES (Uses)

anthranilamides)

```
Polyoxyalkylenes, biological studies
IT
     RL: AGR (Agricultural use); TEM (Technical or engineered material use);
     BIOL (Biological study); USES (Uses)
         (in pesticidal compns. for plant propagation material containing
         anthranilamides)
IT
     Polysaccharides, biological studies
     RL: AGR (Agricultural use); TEM (Technical or engineered material use);
     BIOL (Biological study); USES (Uses)
         (in pesticidal compns. for plant propagation material containing
         anthranilamides)
IT
     Proteins
     RL: AGR (Agricultural use); TEM (Technical or engineered material use);
     BIOL (Biological study); USES (Uses)
         (in pesticidal compns. for plant propagation material containing
         anthranilamides)
IT
     Shellac
     RL: AGR (Agricultural use); TEM (Technical or engineered material use);
     BIOL (Biological study); USES (Uses)
         (in pesticidal compns. for plant propagation material containing
         anthranilamides)
IT
     Waxes
     RL: AGR (Agricultural use); TEM (Technical or engineered material use);
     BIOL (Biological study); USES (Uses)
         (in pesticidal compns. for plant propagation material containing
        anthranilamides)
IT
     Zeins
     RL: AGR (Agricultural use); TEM (Technical or engineered material use);
     BIOL (Biological study); USES (Uses)
         (in pesticidal compns. for plant propagation material containing
         anthranilamides)
     Juvenile hormones
TT
     RL: AGR (Agricultural use); BSU (Biological study, unclassified); BIOL
      (Biological study); USES (Uses)
         (mimics; in pesticidal compns. for plant propagation material containing
         anthranilamides)
ΙT
     Melon (plant)
         (musk-; pesticidal compns. containing anthranilamides for plant propagation
        material of)
TT
     Insecticides
         (neonicotinoid; in pesticidal compns. for plant propagation material
         containing anthranilamides)
. IT
     Onion (Allium cepa)
         (ornamental; pesticidal compns. containing anthranilamides for plant
        propagation material of)
IT
     Anemone
     Arachis hypogaea
     Armeria
     Avena sativa
     Begonia tuberhybrida
     Beta vulgaris
     Brassica juncea
     Brassica nigra
     Brassica oleracea capitata
     Calla
     Capsicum
     Chionodoxa
     Chrysanthemum
     Coleus
     Cosmos (plant)
     Crocus (plant)
```

```
Cucumis sativus
Cyclamen
Dahlia (plant)
Daucus carota
Freesia
Geranium (horticultural common name)
Gerbera
Gladiolus
Gloxinia (genus)
Gossypium hirsutum
Gypsophila elegans
Helianthus annuus
Hordeum vulgare
Hyacinth (plant)
Impatiens
Iris (plant)
Lactuca sativa
Liatris spicata
Lilium
Linum usitatissimum
Lisianthus
Lycopersicon esculentum
Marigold
Medicago sativa
Muscari racemosum
Narcissus
Nicotiana tabacum
Onion (Allium cepa)
Oryza sativa
Oxalis corniculata
Petunia
Phaseolus lunatus
Phaseolus vulgaris
Pisum sativum
Puschkinia libanotica
Rapeseed
Scabiosa atropurpurea
Secale cereale
Snapdragon (Antirrhinum)
Solanum melongena
Solanum tuberosum
Sorghum
Soybean (Glycine max)
Squash (Cucurbita)
Squill (plant)
Sweet potato
Triticum turgidum durum
Tulip
Turnip
Vicia faba
Viola wittrockiana
Watermelon (Citrullus lanatus)
Yam (Dioscorea)
Yarrow (Achillea)
Zea mays
Zinnia
Zizania
   (pesticidal compns. containing anthranilamides for plant propagation
   material of)
Bulb (plant)
```

IT

```
Seed
     Stem
     Tuber (plant organ)
         (pesticidal compns. containing anthranilamides for treatment of)
ΙT
     Pyrethrins
     RL: AGR (Agricultural use); BSU (Biological study, unclassified); BIOL
     (Biological study); USES (Uses)
         (pyrethroids; in pesticidal compns. for plant propagation material
        containing anthranilamides)
IT
     Stem
        (rhizome; pesticidal compns. containing anthranilamides for treatment of)
IT
     Ion channel blockers
        (sodium; in pesticidal compns. for plant propagation material containing
        anthranilamides)
IT
     Toxins
     RL: AGR (Agricultural use); BSU (Biological study, unclassified); BIOL
     (Biological study); USES (Uses)
        (.delta.-endotoxins; in pesticidal compns. for plant propagation
        material containing anthranilamides)
IT
    362637-52-3
                   362637-54-5
                               362637-55-6
                                               362637-56-7
                                                             362637-57-8
    362637-58-9
                  362637-59-0
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                                                             362637-62-5
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                  362637-64-7
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                                               362637-66-9
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                  362637-69-2
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    RL: AGR (Agricultural use); BSU (Biological study, unclassified); BIOL
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                                                              500009-75-6
     500009-76-7
                   500009-85-8 500010-66-2
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     500011-30-3
                   500011-32-5
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     500011-65-4
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     RL: AGR (Agricultural use); BSU (Biological study, unclassified); PRP
     (Properties); BIOL (Biological study); USES (Uses)
        (anthranilamide compds. as pesticides for plant propagation material)
ΙT
     52-68-6
                         57-13-6D, Urea, derivs.
               56-38-2
                                                   60-51-5, Dimethoate
     72-43-5
               76-87-9, Fentin hydroxide
                                           83-79-4
                                                     86-50-0, Azinphos-methyl
     99-30-9, Dicloran
                       108-62-3
                                   115-29-7
                                              115-32-2
                                                          116-06-3
     133-06-2, Captan
                        133-07-3, Folpet
                                           137-26-8, Thiram
                                                              148-79-8,
    Thiabendazole
                   298-00-0
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                                           333-41-5, Diazinon 510-15-6
    732-11-6
                                           944-22-9
               900-95-8, Fentin acetate
                                                     950-37-8
                                                                 1332-40-7,
    Copper oxychloride
                          1563-66-2, Carbofuran
                                                  1897-45-6, Chlorothalonil
    2079-00-7, Blasticidin-S
                               2227-17-0
                                            2310-17-0
                                                        2312-35-8
                                                                     2425-06-1,
               2439-01-2
                          2439-10-3, Dodine
                                                2675-77-6, Chloroneb
    2921-88-2, Chlorpyrifos
                               5598-13-0, Chlorpyrifos-methyl
                                                                6585-53-1,
    Ferric methanearsonate
                              6923-22-4
                                          6980-18-3, Kasugamycin
                                                                    7440-50-8D,
                    7704-34-9, Sulfur, biological studies 8011-63-0,
    Copper, salts
    Bordeaux mixture
                        8018-01-7, Mancozeb
                                              10265-92-6
                                                           10605-21-7,
    Carbendazim
                 11141-17-6, Azadirachtin
                                              12427-38-2, Maneb
                                                                  13071-79-9
    13121-70-5
                 13171-21-6
                               13356-08-6
                                            16752-77-5
                                                         17109-49-8, Edifenphos
    17804-35-2, Benomyl
                          22224-92-6 22248-79-9
                                                     23103-98-2
                                                                  23135-22-0
    23564-05-8, Thiophanate-methyl
                                    24579-73-5, Propamocarb
                                                                25311-71-1
    26087-47-8, Iprobenfos 27605-76-1, Probenazole 30560-19-1, Acephate
    33089-61-1
                 35367-38-5, Diflubenzuron
                                              35400-43-2
                                                           36734-19-7,
    Iprodione
                39148-24-8, Fosetylaluminum 39515-41-8
                                                            40596-69-8
    41198-08-7
                 41814-78-2, Tricyclazole 43121-43-3, Triadimefon
    50471-44-8, Vinclozolin
                              50512-35-1, Isoprothiolane
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    Validamycin
                  51630-58-1
                               52207-48-4
                                            52315-07-8, Cypermethrin
53112-28-0, Pyrimethanil
    52645-53-1
                 52918-63-5, Deltamethrin
    55219-65-3, Triadimenol 55814-41-0, Mepronil
                                                      57369-32-1, Pyroquilon
    57646-30-7, Furalaxyl
                            57837-19-1, Metalaxyl
                                                     57966-95-7, Cymoxanil
    58842-20-9
                 59669-26-0
                              60168-88-9, Fenarimol
                                                       60207-90-1,
    Propiconazole
                    62850-32-2
                                 62865-36-5, Diclomezine
                                                            63837-33-2,
    Diofenolan
                              66063-05-6, Pencycuron 66215-27-8, Cyromazine
Penconazole 66332-96-5, Flutolanil 66841-25-0
                 64628-44-0
                 66246-88-6, Penconazole
    66230-04-4
                                                                     66841-25-6
    67306-00-7, Fenpropidin
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                                                           67747-09-5,
    Prochloraz
                 68085-85-8, Cyhalothrin
                                           68359-37-5, Cyfluthrin
    69327-76-0, Buprofezin
                             70124-77-5
                                          70630-17-0, Mefenoxam 71422-67-8,
                     71751-41-2, Abamectin
    Chlorfluazuron
                                             72490-01-8
                                                           73989-17-0,
    Avermectin
                 74738-17-3, Fenpiclonil
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    77732-09-3, Oxadixyl
                          78587-05-0
                                       79538-32-2
                                                      79622-59-6, Fluazinam
    79983-71-4, Hexaconazole
                               80060-09-9, Diafenthiuron
                                                            82657-04-3,
    Bifenthrin
                 83121-18-0
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                   84466-05-7, Amidoflumet
    Diniconazole
                                             85509-19-9, Flusilazole
                 88283-41-4, Pyrifenox 88671-89-0, Myclobutanil
    86479-06-3
                                                                     91465-08-6
    94361-06-5, Cyproconazole 95737-68-1 96489-71-3
102851-06-9 103055-07-8 104030-54-8, Carpropamid
                                                           101463-69-8
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    Tebuconazole
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112281-77-3, Tetraconazole
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 116255-48-2, Bromuconazole
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                                           118134-30-8, Spiroxamine
 119168-77-3
             119446-68-3, Difenoconazole 119791-41-2, Emamectin
 120068-37-3
              120928-09-8
                            121451-02-3 121552-61-2, Cyprodinil
 122453-73-0, Chlorfenapyr
                            123312-89-0 123572-88-3, Furametpyr
 124495-18-7, Quinoxyfen 125116-23-6, Metconazole
                                                    125225-28-7,
 Ipconazole 126448-41-7, Acibenzolar 130000-40-7, Thifluzamide
131341-86-1, Fludioxonil 131807-57-3, Famoxadone
                                                     131860-33-8,
Azoxystrobin
               131983-72-7, Triticonazole
                                            133408-50-1, Metominostrobin
133855-98-8, Epoxiconazole
                             134098-61-6
                                           136426-54-5, Fluquinconazole
138261-41-3
             139920-32-4, Diclocymet
                                       140923-17-7, SZX0722
141517-21-7, Trifloxystrobin
                              143390-89-0, Kresoxim-methyl
                                                              143807-66-3,
Chromafenozide
                 149877-41-8, Bifenazate
                                           149961-52-4, Dimoxystrobin
153233-91-1
             153719-23-4
                           154025-04-4, Flumetover
                                                     156052-68-5, RH 7281
158062-67-0
              160430-64-8, Acetamiprid
                                         161050-58-4
                                                       161326-34-7
168316-95-8, Spinosad
                       170015-32-4
                                     173584-44-6 175013-18-0,
                 178928-70-6, Prothioconazole
Pyraclostrobin
                                                179101-81-6
                                                              180409-60-3,
Cyflufenamid 181587-01-9
                             188425-85-6, Nicobifen
                                                      189278-12-4,
Proquinazid
              210880-92-5, Clothianidin 211867-47-9, SYP-L190
220899-03-6, Metrafenone 223580-51-6, Tiadinil
                                                  248593-16-0,
Orysastrobin
               283594-90-1
                             361377-29-9, Fluoxastrobin
RL: AGR (Agricultural use); BSU (Biological study, unclassified); BIOL
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   (in pesticidal compns. for plant propagation material containing
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75-35-4D, Vinylidene chloride, polymers and copolymers
                                                         79-41-4D,
Methylacrylic acid, imide derivs. 79-41-4D, Acrylimide, polymers and
copolymers, imide derivs.
                            8062-15-5, Lignosulfonate
                                                       9000-01-5, Gum
         9000-30-0, Guar gum 9000-36-6, Karaya gum
arabic
                                                       9000-65-1,
Tragacanth gum
                 9002-89-5
                           9002-89-5D, Polyvinyl alcohol, copolymers
9003-09-2, Polyvinyl methyl ether
                                  9003-20-7D, Polyvinyl acetate,
derivs., copolymers
                     9003-39-8, Polyvinylpyrrolidone
                                                      9004-32-4,
Carboxymethylcellulose
                         9004-34-6D, Cellulose, derivs.
                                                         9004-53-9,
          9004-57-3, Ethylcellulose 9004-64-2, Hydroxypropylcellulose
9004-67-5D, Methylcellulose, derivs. 9005-25-8D, Starch, derivs.
9005-32-7, Alginic acid
                          9010-98-4, Polychloroprene
                                                      9011-16-9
9012-76-4, Chitosan
                      9050-36-6, Malto-dextrin
                                               25086-89-9
                                                             25322-68-3,
Polyethylene oxide
                     26022-14-0, Polyhydroxyethyl acrylate
                                                            30811-69-9,
                   37353-59-6D, Hydroxymethylcellulose, derivs.
Polyvinylacrylate
69670-80-0, Hydroxymethylpropylcellulose
RL: AGR (Agricultural use); TEM (Technical or engineered material use);
BIOL (Biological study); USES (Uses)
   (in pesticidal compns. for plant propagation material containing
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362637-53-4P
               362637-70-5P
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N-[4-Chloro-2-methyl-6-[(methylamino)carbonyl]phenyl]-1-(3-chloro-2-
pyridinyl)-3-(trifluoromethyl)-1H-pyrazole-5-carboxamide
                                                          500008-00-4P
               500008-45-7P
                             500008-60-6P
                                            500008-62-8P
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RL: AGR (Agricultural use); BSU (Biological study, unclassified); SPN
(Synthetic preparation); BIOL (Biological study); PREP (Preparation); USES
   (preparation of anthranilamide compds. as pesticides for plant propagation
   material)
129585-50-8P
RL: BYP (Byproduct); SPN (Synthetic preparation); PREP (Preparation)
   (preparation of anthranilamide compds. as pesticides for plant propagation
  material)
74-89-5, Methylamine, reactions
                                75-03-6, Iodoethane
                                                       75-31-0,
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IT

IT

IT

IT

Isopropylamine, reactions 76-05-1, Trifluoroacetic acid, reactions 79-37-8, Oxalyl chloride 98-59-9, p-Toluenesulfonyl chloride 100-63-0,

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Phenylhydrazine
                        109-72-8, n-Butyllithium, reactions
                                                              112-02-7,
      Cetyltrimethylammonium chloride
                                        121-44-8, Triethylamine, reactions
      124-63-0, Methanesulfonyl chloride
                                          128-09-6, N-Chlorosuccinimide
                 421-50-1, 1,1,1-Trifluoroacetone
                                                    503-38-8, Trichloromethyl
                      541-41-3, Ethyl chloroformate
      chloroformate
                                                      584-08-7, Potassium
                 630-25-1, 1,2-Dibromotetrachloroethane
      carbonate
                                                           1310-58-3, Potassium
      hydroxide, reactions
                           2402-77-9, 2,3-Dichloropyridine
                                                               4111-54-0,
      Lithium diisopropylamide
                                 4389-45-1, 2-Amino-3-methylbenzoic acid
      4755-77-5, Ethyl chlorooxoacetate
                                         5437-38-7, 3-Methyl-2-nitrobenzoic
             6226-25-1, 2,2,2-Trifluoroethyl trifluoromethanesulfonate
      7087-68-5, N,N-Diisopropylethylamine
                                             7664-93-9, Sulfuric acid, reactions
     7789-69-7, Phosphorus pentabromide 10025-87-3, Phosphorus oxychloride
      10035-10-6, Hydrogen bromide, reactions
                                                14521-80-3, 3-Bromopyrazole
      20154-03-4, 3-Trifluoromethylpyrazole
                                              22206-57-1, Tetrabutylammonium
      fluoride hydrate
                         22841-92-5
                                     65753-47-1, 2-Chloro-3-
      trifluoromethylpyridine
                              66176-17-8, 3-Methylisatoic anhydride
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      133228-21-4
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         (preparation of anthranilamide compds. as pesticides for plant propagation
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     14339-33-4P, 3-Chloropyrazole
                                    20776-67-4P, 2-Amino-3-methyl-5-
     chlorobenzoic acid
                         68289-10-1P, 2-Amino-3-methyl-N-(1-
     methylethyl)benzamide
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     3-Methyl-N-(1-methylethyl)-2-nitrobenzamide
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     362640-60-6P
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                                   362640-62-8P
                                                  438450-38-5P,
     3-Chloro-2-[3-(trifluoromethyl)-1H-pyrazol-1-yl]pyridine
                                                                 438450-39-6P
     438450-40-9P, 6-Chloro-2-[1-(3-chloro-2-pyridinyl)-3-(trifluoromethyl)-1H-
     pyrazol-5-yl]-8-methyl-4H-3,1-benzoxazin-4-one
                                                      458543-77-6P
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     RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT
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        (preparation of anthranilamide compds. as pesticides for plant propagation
        material)
RE.CNT
              THERE ARE 2 CITED REFERENCES AVAILABLE FOR THIS RECORD
RE
(1) Du Pont; WO 0170671 A 2001 HCAPLUS
(2) Mitsubishi Chem Ind; EP 0289879 A 1988 HCAPLUS
     220899-03-6, Metrafenone
     RL: AGR (Agricultural use); BSU (Biological study, unclassified); BIOL
     (Biological study); USES (Uses)
        (in pesticidal compns. for plant propagation material containing
        anthranilamides)
RN
     220899-03-6 HCAPLUS
CN
     Methanone, (3-bromo-6-methoxy-2-methylphenyl) (2,3,4-trimethoxy-6-
     methylphenyl) - (9CI) (CA INDEX NAME)
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L31 ANSWER 8 OF 27 HCAPLUS COPYRIGHT 2004 ACS on STN
ΑN
     2003:238323 HCAPLUS
DN
     138:255100
ED
     Entered STN: 27 Mar 2003
TI
     Preparation of xanthones as agricultural fungicides
IN
     Rose, Ingo; Tormo i Blasco, Jordi; Gewehr, Markus; Grammenos, Wassilios;
     Mueller, Bernd; Rheinheimer, Joachim; Schaefer, Peter; Schieweck, Frank;
     Grote, Thomas; Gypser, Andreas; Ammermann, Eberhard; Lorenz, Gisela;
     Stierl, Reinhard; Strathmann, Siegfried
PA
     BASF Aktiengesellschaft, Germany
SO
     Eur. Pat. Appl., 30 pp.
     CODEN: EPXXDW
DT
     Patent
LĄ
     German
TC
     ICM C07D311-86
     ICS A01N043-16
     27-14 (Heterocyclic Compounds (One Hetero Atom))
     Section cross-reference(s): 5
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     PATENT NO.
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                                DATE
                                            APPLICATION NO.
                         _ _ _ _
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                         A1
                                20030326
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                                                                   20020910 <--
         R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT,
             IE, SI, LT, LV, FI, RO, MK, CY, AL, TR, BG, CZ, EE, SK
     JP 2003201289
                         A2
                                20030718
                                          JP 2002-272397
                                                                   20020919 <--
     US 6576595
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                                                                   20020923 <--
PRAI DE 2001-10146706
                         Α
                                20010921 <--
CLASS
 PATENT NO.
                CLASS PATENT FAMILY CLASSIFICATION CODES
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 EP 1295877
                ICM
                       C07D311-86
                 ICS
                       A01N043-16
 EP 1295877
                ECLA
                        A01N043/16; C07C045/46; C07C045/54; C07C049/84;
                        C07D311/86
                                                                            <--
OS
    MARPAT 138:255100
GI
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$$R_n^5$$
 $R_n^5$ 
 $R_n^5$ 
 $R_n^2$ 

Ι

Title compds. [I; R1 = (halo)alkyl; R2, R3 = H, alkoxy, alkenyloxy, alkynyloxy; or R2R3 = (substituted) oxyalkyloxy; R4, R5 = halo, cyano, OH, amino, SH, (halo)alkyl, (halo)alkoxy, (halo)alkylthio, alkylcarbonyl, alkylcarbonylthio; n = 0-2; X, Y = O, S], were prepared Thus, a mixture of Na in MeOH was treated with 1-(2,6-dichlorophenyl)-1-(2-hydroxy-3,4-dimethoxy-6-methylphenyl)methanone (preparation given) in DME at 0.degree.-5.degree. under protective atmospheric followed by stirring for 72 h at 80.degree. and precipitation with H2O/AcOH to give 100% 3,4,8-trimethoxy-1-methylxanthen-9-one.

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I (R1 = Me; R2-R4 = OMe; R5 = 7-Cl; X, Y = O) at 4-16 ppm gave .gtoreq.97%
      control of Blumeria graminis forma specialis tritici.
 ST
      xanthone prepn agricultural fungicide
 IT
      Fungicides
         (agrochem.; preparation of xanthones as agricultural fungicides)
      502847-04-3P, 3,4,8-Trimethoxy-1-methylxanthen-9-one
 TΥ
      RL: AGR (Agricultural use); BSU (Biological study, unclassified); RCT
      (Reactant); SPN (Synthetic preparation); BIOL (Biological study); PREP
      (Preparation); RACT (Reactant or reagent); USES (Uses)
         (preparation of xanthones as agricultural fungicides)
IT
      502847-05-4P, 5-Bromo-3,4,8-trimethoxy-1-methylxanthen-9-one
      502847-06-5P, 7-Chloro-3,4-dimethoxy-1,8-dimethylxanthen-9-one
      502847-09-8P
                   502847-10-1P
     RL: AGR (Agricultural use); BSU (Biological study, unclassified); SPN
      (Synthetic preparation); BIOL (Biological study); PREP (Preparation); USES
      (Uses)
         (preparation of xanthones as agricultural fungicides)
TΤ
     3282-30-2, Pivaloyl chloride 4659-45-4, 2,6-Dichlorobenzoyl 6443-69-2, 3,4,5-Trimethoxytoluene 33528-09-5, Benzoic acid,
                                    4659-45-4, 2,6-Dichlorobenzoyl chloride
     2-hydroxy-6-methyl-, methyl ester
     RL: RCT (Reactant); RACT (Reactant or reagent)
         (preparation of xanthones as agricultural fungicides)
ΤT
     183726-43-4P, 1-(2,6-Dichlorophenyl)-1-(2-hydroxy-3,4-dimethoxy-6-
     methylphenyl) methanone
                               203109-73-3P 252955-12-7P,
     1-(3-Chloro-6-hydroxy-2-methylphenyl)-1-(2,3,4-trimethoxy-6-
     methylphenyl) methanone 252955-16-1P, 2,2-Dimethylpropionic acid
     4-chloro-3-methyl-2-[1-(2,3,4-trimethoxy-6-methylphenyl)carbonyl]phenyl
                            502847-08-7P, 3-Chloro-6-(2,2-dimethylpropanoyloxy)-
            502847-07-6P
     2-methylbenzoic acid
     RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT
     (Reactant or reagent)
        (preparation of xanthones as agricultural fungicides)
              THERE ARE 5 CITED REFERENCES AVAILABLE FOR THIS RECORD
RE.CNT
RE
(1) Avar, L; US 4661595 A 1987 HCAPLUS
(2) Basf Ag; DE 4301424 A 1994 HCAPLUS
(3) Interlab Corp; WO 9734482 A 1997 HCAPLUS
(4) Kato, T; HETEROCYCLES 1976, 1
(5) Novonordisk As; EP 0507039 A 1992 HCAPLUS
     252955-12-7P, 1-(3-Chloro-6-hydroxy-2-methylphenyl)-1-(2,3,4-
IT
     trimethoxy-6-methylphenyl) methanone
     RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT
     (Reactant or reagent)
        (preparation of xanthones as agricultural fungicides)
RN
     252955~12-7 HCAPLUS
CN
     Methanone, (3-chloro-6-hydroxy-2-methylphenyl)(2,3,4-trimethoxy-6-
     methylphenyl) - (9CI) (CA INDEX NAME)
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ANSWER 9 OF 27 HCAPLUS COPYRIGHT 2004 ACS on STN
AN
     2002:675750 HCAPLUS
DN
     137:181098
ED
     Entered STN: 08 Sep 2002
ΤI
     Synergistic fungicidal mixtures comprising a benzophenone derivative
     Cotter, Henry Van Tuyl; Reichert, Gunter; Sieverding, Ewald; Jegerings,
     Petrus Martinus Franciscus Emanuel
PA
     Basf Aktiengesellschaft, Germany
     PCT Int. Appl., 46 pp.
SO
     CODEN: PIXXD2
DT
     Patent
     English
LΑ
IC
     ICM A01N035-04
          A01N035-04; A01N059-20; A01N059-02; A01N055-00; A01N047-44;
          A01N047-38; A01N047-14; A01N047-04; A01N043-82; A01N043-76;
          A01N043-653; A01N043-60; A01N043-54; A01N043-42; A01N043-40;
          A01N043-36; A01N043-32; A01N043-30; A01N037-50
     5-2 (Agrochemical Bioregulators)
FAN.CNT 1
     PATENT NO.
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                               DATE
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                        _ _ _ _
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PΙ
     WO 2002067679
                        A1 20020906
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                                                                  20010219 <--
         W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN,
            CR, CU, CZ, DE, DK, DM, DZ, EE, ES, FI, GB, GD, GE, GH, GM, HR,
             HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT,
             LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, PL, PT, RO, RU,
             SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, UZ, VN, YU,
             ZA, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM
         RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZW, AT, BE, CH, CY,
            DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR, BF,
            BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG
PRAI WO 2001-EP1823
                               20010219 <--
CLASS
PATENT NO.
                CLASS PATENT FAMILY CLASSIFICATION CODES
                       -----
WO 2002067679
                ICM
                       A01N035-04
                ICS
                       A01N035-04; A01N059-20; A01N059-02; A01N055-00;
                       A01N047-44; A01N047-38; A01N047-14; A01N047-04;
                       A01N043-82; A01N043-76; A01N043-653; A01N043-60;
                       A01N043-54; A01N043-42; A01N043-40; A01N043-36;
                       A01N043-32; A01N043-30; A01N037-50
os
    MARPAT 137:181098
GI
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AB Fungicidal compns. for controlling the growth of phytopathogenic fungi comprise synergistically effective amts. of (a) a benzophenone derivative (3-bromo-6-methoxy-2-methylphenyl)(2,3,4-trimethoxy-6-

```
methylphenyl) methanone (REG 220899-03-6) and (b) at least one
     fungicidally active ingredient selected from groups (A), (B), (C), (D) and
      (E): (A) an ergosterol biosynthesis inhibitor; (B) a strobilurine derivative;
      (C) a melanin biosynthesis inhibitor; (D) a compound selected from the group
     consisting of acibenzolar, benomyl, captan, carboxin, chlorothalonil,
     copper, cyprodinil, dinocap, dithianon, dimethomorph, dodine, ethirimol,
     famoxadone, fenpiclonil, fluazinam, mancozeb, metalaxyl, pyrifenox,
     sulfur, vinclozolin; and (E) a triazolopyrimidine I (Markush included).
st
     synergism fungicide benzophenone deriv mixt
IT
     Fungicides
         (synergistic; synergistic fungicidal mixts. comprising benzophenone
        derivative)
     220899-03-6
IT
     RL: AGR (Agricultural use); BSU (Biological study, unclassified); BIOL
     (Biological study); USES (Uses)
         (mixts. with fungicides; synergistic fungicidal compns. containing)
IT
     7440-50-8D, Copper, compds., mixture with (3-bromo-6-methoxy-2-
     methylphenyl)(2,3,4-trimethoxy-6-methylphenyl)methanone
     368872-60-0 451486-11-6 451486-12-7
     451486-13-8 451486-14-9 451486-15-0
     451486-16-1 451486-17-2 451486-18-3
     451486-19-4 451486-20-7 451486-21-8
     451486-22-9 451486-23-0 451486-24-1
     451486-25-2 451486-26-3 451486-27-4
     451486-28-5 451486-29-6 451486-30-9
     451486-31-0 451486-32-1 451486-33-2
     451486-34-3 451486-35-4 451486-36-5
     451486-37-6 451486-38-7 451486-39-8
     451486-40-1 451486-41-2 451486-42-3
     451486-43-4 451486-44-5 451486-45-6
     451486-46-7 451486-47-8 451486-48-9
     451486-49-0 451486-50-3 451486-51-4
     451486-52-5 451486-53-6 451486-54-7
     451486-55-8 451486-56-9 451486-57-0
     451486-58-1 451486-59-2 451486-60-5
     RL: AGR (Agricultural use); BSU (Biological study, unclassified); BIOL
     (Biological study); USES (Uses)
        (synergistic fungicidal compns. containing)
              THERE ARE 5 CITED REFERENCES AVAILABLE FOR THIS RECORD
RE.CNT
RE
(1) American Cyanamid Co; EP 0897904 A 1999 HCAPLUS
(2) American Cyanamid Co; EP 1023834 A 2000 HCAPLUS
(3) American Cyanamid Co; EP 1023837 A 2000 HCAPLUS
(4) Novartis Erfind Verwalt Gmbh; WO 0072677 A 2000 HCAPLUS
(5) Novartis Erfind Verwalt Gmbh; WO 0076317 A 2000 HCAPLUS
     220899-03-6
     RL: AGR (Agricultural use); BSU (Biological study, unclassified); BIOL
     (Biological study); USES (Uses)
        (mixts. with fungicides; synergistic fungicidal compns. containing)
RN
     220899-03-6 HCAPLUS
CN
     Methanone, (3-bromo-6-methoxy-2-methylphenyl)(2,3,4-trimethoxy-6-
     methylphenyl) - (9CI) (CA INDEX NAME)
```

```
Br
        Me
                 OMe
           0
                       OMe
                       OMe
  OMe
          Me
IT
     368872-60-0 451486-11-6 451486-12-7
```

451486-13-8 451486-14-9 451486-15-0 451486-16-1 451486-17-2 451486-18-3 451486-19-4 451486-20-7 451486-21-8 451486-22-9 451486-23-0 451486-24-1 451486-25-2 451486-26-3 451486-27-4 451486-28-5 451486-29-6 451486-30-9 451486-31-0 451486-32-1 451486-33-2 451486-34-3 451486-35-4 451486-36-5 451486-37-6 451486-38-7 451486-39-8 451486-40-1 451486-41-2 451486-42-3 451486-43-4 451486-44-5 451486-45-6 451486-46-7 451486-47-8 451486-48-9 451486-49-0 451486-50-3 451486-51-4 451486-52-5 451486-53-6 451486-54-7 451486-55-8 451486-56-9 451486-57-0 451486-58-1 451486-59-2 451486-60-5 451486-61-6

RL: AGR (Agricultural use); BSU (Biological study, unclassified); BIOL (Biological study); USES (Uses)

(synergistic fungicidal compns. containing)

RN 368872-60-0 HCAPLUS

Benzeneacetic acid, 2-[[6-(2-cyanophenoxy)-4-pyrimidinyl]oxy]-.alpha.-(methoxymethylene) -, methyl ester, (.alpha.E) -, mixt. with (3-bromo-6-methoxy-2-methylphenyl) (2,3,4-trimethoxy-6methylphenyl) methanone (9CI) (CA INDEX NAME)

CM 1

CN

CRN 220899-03-6 CMF C19 H21 Br O5

CM 2

131860-33-8 CRN CMF C22 H17 N3 O5 Double bond geometry as shown.

RN 451486-11-6 HCAPLUS

CN 1,2,3-Benzothiadiazole-7-carbothioic acid, mixt. with (3-bromo-6-methoxy-2-methylphenyl)(2,3,4-trimethoxy-6-methylphenyl)methanone (9CI) (CA INDEX NAME)

CM 1

CRN 220899-03-6 CMF C19 H21 Br O5

CM 2

CRN 126448-41-7 CMF C7 H4 N2 O S2

RN

451486-12-7 HCAPLUS

CN Carbamic acid, [1-[(butylamino)carbonyl]-1H-benzimidazol-2-yl]-, methyl ester, mixt. with (3-bromo-6-methoxy-2-methylphenyl)(2,3,4-trimethoxy-6-methylphenyl)methanone (9CI) (CA INDEX NAME)

CM 1

CRN 17804-35-2 CMF C14 H18 N4 O3

RN 451486-13-8 HCAPLUS

CN 1H-Isoindole-1,3(2H)-dione, 3a,4,7,7a-tetrahydro-2-[(trichloromethyl)thio]-, mixt. with (3-bromo-6-methoxy-2-methylphenyl)(2,3,4-trimethoxy-6-methylphenyl)methanone (9CI) (CA INDEX NAME)

CM 1

CRN 220899-03-6 CMF C19 H21 Br O5

CM 2

CRN 133-06-2 CMF C9 H8 Cl3 N O2 S

RN 451486-14-9 HCAPLUS

CN 1,4-Oxathiin-3-carboxamide, 5,6-dihydro-2-methyl-N-phenyl-, mixt. with (3-bromo-6-methoxy-2-methylphenyl) (2,3,4-trimethoxy-6-methylphenyl) methanone (9CI) (CA INDEX NAME)

CM 1

CRN 220899-03-6 CMF C19 H21 Br O5

CM 2

CRN 5234-68-4 CMF C12 H13 N O2 S

RN 451486-15-0 HCAPLUS

CN 1,3-Benzenedicarbonitrile, 2,4,5,6-tetrachloro-, mixt. with (3-bromo-6-methoxy-2-methylphenyl)(2,3,4-trimethoxy-6-methylphenyl)methanone (9CI) (CA INDEX NAME)

CM 1

CRN 1897-45-6 CMF C8 Cl4 N2

RN 451486-16-1 HCAPLUS

CN Methanone, (3-bromo-6-methoxy-2-methylphenyl) (2,3,4-trimethoxy-6-methylphenyl)-, mixt. with 4-cyclopropyl-6-methyl-N-phenyl-2-pyrimidinamine (9CI) (CA INDEX NAME)

CM 1

CRN 220899-03-6 CMF C19 H21 Br O5

CM 2

CRN 121552-61-2 CMF C14 H15 N3

RN 451486-17-2 HCAPLUS

CN 2-Butenoic acid, 2(or 4)-isooctyl-4,6(or 2,6)-dinitrophenyl ester, mixt. with (3-bromo-6-methoxy-2-methylphenyl)(2,3,4-trimethoxy-6-methylphenyl)methanone (9CI) (CA INDEX NAME)

CM 1

CRN 220899-03-6 CMF C19 H21 Br O5

CM 2

CRN 39300-45-3 CMF C18 H24 N2 O6 CCI IDS

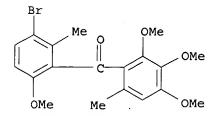
 $D1-NO_2$ 

 $D1-(C_8H_{17})$ 

RN 451486-18-3 HCAPLUS
CN Naphtho[2,3-b]-1,4-dithiin-2,3-dicarbonitrile, 5,10-dihydro-5,10-dioxo-, mixt. with (3-bromo-6-methoxy-2-methylphenyl)(2,3,4-trimethoxy-6-methylphenyl)methanone (9CI) (CA INDEX NAME)

CM 1

CRN 220899-03-6 CMF C19 H21 Br O5



CM 2

CRN 3347-22-6 CMF C14 H4 N2 O2 S2

RN 451486-19-4 HCAPLUS

CN Morpholine, 4-[3-(4-chlorophenyl)-3-(3,4-dimethoxyphenyl)-1-oxo-2-propenyl]-, mixt. with (3-bromo-6-methoxy-2-methylphenyl)(2,3,4-trimethoxy-6-methylphenyl)methanone (9CI) (CA INDEX NAME)

CM 1

CRN 220899-03-6 CMF C19 H21 Br O5

CM 2

CRN 110488-70-5 CMF C21 H22 Cl N O4

RN 451486-20-7 HCAPLUS

CN Guanidine, dodecyl-, monoacetate, mixt. with (3-bromo-6-methoxy-2-methylphenyl)(2,3,4-trimethoxy-6-methylphenyl)methanone (9CI) (CA INDEX NAME)

CM 1

CRN 220899-03-6 CMF C19 H21 Br O5

CM 2

CRN 2439-10-3

CMF C13 H29 N3 . C2 H4 O2

CM 3

CRN 112-65-2 CMF C13 H29 N3

$$\begin{array}{c} \text{NH} \\ || \\ \text{H}_2 \text{N--C-NH-- (CH}_2)_{11} \text{--Me} \end{array}$$

CM 4

CRN 64-19-7 CMF C2 H4 O2

RN 451486-21-8 HCAPLUS

CN Methanone, (3-bromo-6-methoxy-2-methylphenyl) (2,3,4-trimethoxy-6-methylphenyl)-, mixt. with 5-butyl-2-(ethylamino)-6-methyl-4(1H)-pyrimidinone (9CI) (CA INDEX NAME)

CM 1

CRN 220899-03-6 CMF C19 H21 Br O5

CM 2

CRN 23947-60-6 CMF C11 H19 N3 O

RN 451486-22-9 HCAPLUS

2,4-Oxazolidinedione, 5-methyl-5-(4-phenoxyphenyl)-3-(phenylamino)-, mixt. with (3-bromo-6-methoxy-2-methylphenyl)(2,3,4-trimethoxy-6-methylphenyl)methanone (9CI) (CA INDEX NAME)

CM 1

CN

CRN 131807-57-3 CMF C22 H18 N2 O4

RN 451486-23-0 HCAPLUS CN 1H-Pyrrole-3-carbonic

1H-Pyrrole-3-carbonitrile, 4-(2,3-dichlorophenyl)-, mixt. with (3-bromo-6-methoxy-2-methylphenyl)(2,3,4-trimethoxy-6-methylphenyl)methanone (9CI) (CA INDEX NAME)

CM 1

CRN 220899-03-6 CMF C19 H21 Br O5

CM 2

CRN 74738-17-3 CMF C11 H6 Cl2 N2

RN 451486-24-1 HCAPLUS

CN Methanone, (3-bromo-6-methoxy-2-methylphenyl)(2,3,4-trimethoxy-6-methylphenyl)-, mixt. with 3-chloro-N-[3-chloro-2,6-dinitro-4-(trifluoromethyl)phenyl]-5-(trifluoromethyl)-2-pyridinamine (9CI) (CA INDEX NAME)

CM 1

CRN 220899-03-6 CMF C19 H21 Br O5

CM 2

CRN 79622-59-6 CMF C13 H4 Cl2 F6 N4 O4

$$C1$$
 $NO_2$ 
 $NH$ 
 $NO_2$ 
 $C1$ 
 $NH$ 
 $NO_2$ 
 $CF_3$ 

RN 451486-25-2 HCAPLUS

CN Manganese, [[2-[(dithiocarboxy)amino]ethyl]carbamodithioato(2-)-.kappa.S,.kappa.S']-, mixt. with (3-bromo-6-methoxy-2-methylphenyl)(2,3,4-trimethoxy-6-methylphenyl)methanone and [[2-[(dithiocarboxy)amino]ethyl]carbamodithioato(2-)-.kappa.S,.kappa.S']zinc (9CI) (CA INDEX NAME)

CM 1

CRN 12427-38-2 CMF C4 H6 Mn N2 S4 CCI CCS

CM 3

CRN 12122-67-7 CMF C4 H6 N2 S4 Zn CCI CCS

RN 451486-26-3 HCAPLUS

CN Alanine, N-(2,6-dimethylphenyl)-N-(methoxyacetyl)-, methyl ester, mixt. with (3-bromo-6-methoxy-2-methylphenyl)(2,3,4-trimethoxy-6-methylphenyl)methanone (9CI) (CA INDEX NAME)

CM 1

CRN 57837-19-1 CMF C15 H21 N O4

RN 451486-27-4 HCAPLUS

CN Ethanone, 1-(2,4-dichlorophenyl)-2-(3-pyridinyl)-, O-methyloxime, mixt. with (3-bromo-6-methoxy-2-methylphenyl)(2,3,4-trimethoxy-6-methylphenyl)methanone (9CI) (CA INDEX NAME)

CM 1

CRN 220899-03-6 CMF C19 H21 Br O5

CM 2

CRN 88283-41-4 CMF C14 H12 Cl2 N2 O

RN451486-28-5 HCAPLUS

> Methanone, (3-bromo-6-methoxy-2-methylphenyl)(2,3,4-trimethoxy-6methylphenyl) -, mixt. with sulfur (9CI) (CA INDEX NAME)

CM

CN

CRN 220899-03-6 CMF C19 H21 Br O5

CM 2

CRN 7704-34-9 CMF S

S

RN451486-29-6 HCAPLUS

2,4-Oxazolidinedione, 3-(3,5-dichlorophenyl)-5-ethenyl-5-methyl-, mixt. CNwith (3-bromo-6-methoxy-2-methylphenyl)(2,3,4-trimethoxy-6methylphenyl) methanone (9CI) (CA INDEX NAME)

CM 1

CRN 50471-44-8 CMF C12 H9 C12 N O3

RN 451486-30-9 HCAPLUS

CN Methanone, (3-bromo-6-methoxy-2-methylphenyl) (2,3,4-trimethoxy-6-methylphenyl)-, mixt. with rel-1-[[(2R,3S)-3-(2-chlorophenyl)-2-(4-fluorophenyl)oxiranyl]methyl]-1H-1,2,4-triazole (9CI) (CA INDEX NAME)

CM 1

CRN 220899-03-6 CMF C19 H21 Br O5

CM 2

CRN 133855-98-8 CMF C17 H13 C1 F N3 O

Relative stereochemistry.

RN 451486-31-0 HCAPLUS

CN Methanone, (3-bromo-6-methoxy-2-methylphenyl)(2,3,4-trimethoxy-6-methylphenyl)-, mixt. with 1-[[bis(4-fluorophenyl)methylsilyl]methyl]-1H-1,2,4-triazole(9CI) (CA INDEX NAME)

CM 1

CRN 220899-03-6 CMF C19 H21 Br O5

CM 2

CRN 85509-19-9 CMF C16 H15 F2 N3 Si

$$N - CH_2 - Si$$

$$F$$

RN 451486-32-1 HCAPLUS

CN Methanone, (3-bromo-6-methoxy-2-methylphenyl) (2,3,4-trimethoxy-6-methylphenyl) -, mixt. with 5-[(4-chlorophenyl)methyl]-2,2-dimethyl-1-(1H-1,2,4-triazol-1-ylmethyl)cyclopentanol (9CI) (CA INDEX NAME)

CRN 220899-03-6 CMF C19 H21 Br O5

CM 2

CRN 125116-23-6 CMF C17 H22 C1 N3 O

$$\begin{array}{c|c} CH_2 & \\ HO & Me \\ \\ CH_2 & \\ \\ N & \\ N & \\ \end{array}$$

RN 451486-33-2 HCAPLUS

CN 1H-1,2,4-Triazole-1-propanenitrile, .alpha.-butyl-.alpha.-(4-chlorophenyl)-, mixt. with (3-bromo-6-methoxy-2-methylphenyl)(2,3,4-trimethoxy-6-methylphenyl)methanone (9CI) (CA INDEX NAME)

CM 1

CRN 220899-03-6 CMF C19 H21 Br O5

CM 2

CRN 88671-89-0 CMF C15 H17 Cl N4

RN 451486-34-3 HCAPLUS

CN Methanone, (3-bromo-6-methoxy-2-methylphenyl) (2,3,4-trimethoxy-6-methylphenyl)-, mixt. with 1-[2-(2,4-dichlorophenyl)pentyl]-1H-1,2,4-triazole (9CI) (CA INDEX NAME)

CM 1

CRN 220899-03-6 CMF C19 H21 Br O5

CM 2

CRN 66246-88-6 CMF C13 H15 Cl2 N3

$$\begin{array}{c|c} & & & & \\ & & & \\ N & & & \\ & & & \\ N & & & \\ \end{array}$$

RN 451486-35-4 HCAPLUS

CN Methanone, (3-bromo-6-methoxy-2-methylphenyl) (2,3,4-trimethoxy-6-methylphenyl)-, mixt. with 1-[[2-(2,4-dichlorophenyl)-4-propyl-1,3-dioxolan-2-yl]methyl]-1H-1,2,4-triazole (9CI) (CA INDEX NAME)

CM 1

CRN 60207-90-1 CMF C15 H17 Cl2 N3 O2

RN 451486-36-5 HCAPLUS

CN Methanone, (3-bromo-6-methoxy-2-methylphenyl) (2,3,4-trimethoxy-6-methylphenyl) -, mixt. with N-propyl-N-[2-(2,4,6-trichlorophenoxy)ethyl]-1H-imidazole-1-carboxamide (9CI) (CA INDEX NAME)

CM 1

CRN 220899-03-6 CMF C19 H21 Br O5

CM 2

CRN 67747-09-5 CMF C15 H16 Cl3 N3 O2

RN 451486-37-6 HCAPLUS

CN Methanone, (3-bromo-6-methoxy-2-methylphenyl)(2,3,4-trimethoxy-6-methylphenyl)-, mixt. with .alpha.-[2-(4-chlorophenyl)ethyl]-.alpha.-(1,1-dimethylethyl)-1H-1,2,4-triazole-1-ethanol (9CI) (CA INDEX NAME)

CM 1

CRN 220899-03-6 CMF C19 H21 Br O5

CM 2

CRN 107534-96-3 CMF C16 H22 Cl N3 O

RN

451486-38-7 HCAPLUS 2-Butanone, 1-(4-chlorophenoxy)-3,3-dimethyl-1-(1H-1,2,4-triazol-1-yl)-, CNmixt. with (3-bromo-6-methoxy-2-methylphenyl)(2,3,4-trimethoxy-6-methylphenyl)methanone (9CI) (CA INDEX NAME)

CM

CRN 220899-03-6 CMF C19 H21 Br O5

CM 2

CRN 43121-43-3 CMF C14 H16 C1 N3 O2

RN 451486-39-8 HCAPLUS

Methanone, (3-bromo-6-methoxy-2-methylphenyl)(2,3,4-trimethoxy-6-CN methylphenyl) -, mixt. with .beta.-(4-chlorophenoxy) -.alpha.-(1,1dimethylethyl)-1H-1,2,4-triazole-1-ethanol (9CI) (CA INDEX NAME)

CM 1

CRN 220899-03-6 CMF C19 H21 Br O5

CM 2 CRN 55219-65-3 CMF C14 H18 C1 N3 O2

RN 451486-40-1 HCAPLUS

CN Methanone, (3-bromo-6-methoxy-2-methylphenyl)(2,3,4-trimethoxy-6-methylphenyl)-, mixt. with .alpha.-(2-chlorophenyl)-.alpha.-(4-chlorophenyl)-5-pyrimidinemethanol (9CI) (CA INDEX NAME)

CM 1

CRN 220899-03-6 CMF C19 H21 Br O5

CM 2

CRN 60168-88-9 CMF C17 H12 Cl2 N2 O

RN 451486-41-2 HCAPLUS

CN Methanone, (3-bromo-6-methoxy-2-methylphenyl) (2,3,4-trimethoxy-6-methylphenyl)-, mixt. with rel-(2R,6S)-4-[3-[4-(1,1-dimethylethyl)phenyl]-2-methylpropyl]-2,6-dimethylmorpholine (9CI) (CA INDEX NAME)

CM 1

CRN 220899-03-6 CMF C19 H21 Br O5

CM 2

CRN 67564-91-4 CMF C20 H33 N O

Relative stereochemistry.

RN 451486-42-3 HCAPLUS

CN Methanone, (3-bromo-6-methoxy-2-methylphenyl) (2,3,4-trimethoxy-6-methylphenyl)-, mixt. with 1-[3-[4-(1,1-dimethylethyl)phenyl]-2-methylpropyl]piperidine (9CI) (CA INDEX NAME)

CM 1

CRN 220899-03-6 CMF C19 H21 Br O5

CM 2

CRN 67306-00-7 CMF C19 H31 N

RN 451486-43-4 HCAPLUS

CN Methanone, (3-bromo-6-methoxy-2-methylphenyl) (2,3,4-trimethoxy-6-methylphenyl)-, mixt. with 8-(1,1-dimethylethyl)-N-ethyl-N-propyl-1,4-dioxaspiro[4.5]decane-2-methanamine (9CI) (CA INDEX NAME)

CM 1

CRN 220899-03-6 CMF C19 H21 Br O5

CM 2

CRN 118134-30-8 CMF C18 H35 N O2

RN 451486-44-5 HCAPLUS

CN Formamide, N,N'-[1,4-piperazinediylbis(2,2,2-trichloroethylidene)]bis-, mixt. with (3-bromo-6-methoxy-2-methylphenyl)(2,3,4-trimethoxy-6-methylphenyl)methanone (9CI) (CA INDEX NAME)

CM 1

CRN 26644-46-2 CMF C10 H14 C16 N4 O2

RN 451486-45-6 HCAPLUS

CN Methanone, (3-bromo-6-methoxy-2-methylphenyl) (2,3,4-trimethoxy-6-methylphenyl)-, mixt. with .alpha.-(4-chlorophenyl)-.alpha.-(1-cyclopropylethyl)-1H-1,2,4-triazole-1-ethanol (9CI) (CA INDEX NAME)

CM 1

CRN 220899-03-6 CMF C19 H21 Br O5

CM 2

CRN 94361-06-5 CMF C15 H18 C1 N3 O

RN 451486-46-7 HCAPLUS

CN Benzeneacetic acid, .alpha.-(methoxyimino)-2-[(2-methylphenoxy)methyl]-, methyl ester, (.alpha.E)-, mixt. with (3-bromo-6-methoxy-2-methylphenyl)(2,3,4-trimethoxy-6-methylphenyl)methanone (9CI) (CA INDEX NAME)

CM 1

CRN 220899-03-6 CMF C19 H21 Br O5

CM 2

CRN 143390-89-0 CMF C18 H19 N O4

Double bond geometry as shown.

RN 451486-47-8 HCAPLUS

CN Cyclopropanecarboxamide, 2,2-dichloro-N-[1-(4-chlorophenyl)ethyl]-1-ethyl-3-methyl-, mixt. with (3-bromo-6-methoxy-2-methylphenyl)(2,3,4-trimethoxy-6-methylphenyl)methanone (9CI) (CA INDEX NAME)

CM 1

CRN 220899-03-6 CMF C19 H21 Br O5

CM 2

CRN 104030-54-8 CMF C15 H18 C13 N O

RN 451486-48-9 HCAPLUS

CN 2(3H)-Benzothiazolone, 4-chloro-3-methyl-, mixt. with (3-bromo-6-methoxy-2-methylphenyl)(2,3,4-trimethoxy-6-methylphenyl)methanone (9CI) (CA INDEX NAME)

CM 1

CRN 220899-03-6 CMF C19 H21 Br O5

CM 2

CRN 63755-05-5 CMF C8 H6 Cl N O S

RN 451486-49-0 HCAPLUS

CN Butanamide, 2-cyano-N-[(1R)-1-(2,4-dichlorophenyl)ethyl]-3,3-dimethyl-, mixt. with (3-bromo-6-methoxy-2-methylphenyl)(2,3,4-trimethoxy-6-methylphenyl)methanone (9CI) (CA INDEX NAME)

CM 1

CRN 220899-03-6 CMF C19 H21 Br O5

CM 2

CRN 139920-32-4 CMF C15 H18 Cl2 N2 O

Absolute stereochemistry.

RN 451486-50-3 HCAPLUS

CN 4H-Pyrrolo[3,2,1-ij]quinolin-4-one, 1,2,5,6-tetrahydro-, mixt. with (3-bromo-6-methoxy-2-methylphenyl)(2,3,4-trimethoxy-6-methylphenyl)methanone (9CI) (CA INDEX NAME)

CM 1

CRN 57369-32-1 CMF C11 H11 N O

RN 451486-51-4 HCAPLUS

CN 1(3H)-Isobenzofuranone, mixt. with (3-bromo-6-methoxy-2-methylphenyl)(2,3,4-trimethoxy-6-methylphenyl)methanone (9CI) (CA INDEX NAME)

CM 1

CRN 220899-03-6 CMF C19 H21 Br O5

CM 2

CRN 87-41-2 CMF C8 H6 O2

RN 451486-52-5 HCAPLUS

CN Methanone, (3-bromo-6-methoxy-2-methylphenyl)(2,3,4-trimethoxy-6-methylphenyl)-, mixt. with 5-methyl-1,2,4-triazolo[3,4-b]benzothiazole (9CI) (CA INDEX NAME)

CM 1

CRN 220899-03-6 CMF C19 H21 Br O5

CM 2

CRN 41814-78-2 CMF C9 H7 N3 S

RN 451486-53-6 HCAPLUS

CN Propanamide, N-(1-cyano-1,2-dimethylpropyl)-2-(2,4-dichlorophenoxy)-, mixt. with (3-bromo-6-methoxy-2-methylphenyl)(2,3,4-trimethoxy-6-methylphenyl)methanone (9CI) (CA INDEX NAME)

CM 1

CRN 220899-03-6 CMF C19 H21 Br O5

CM 2

CRN 115852-48-7 CMF C15 H18 Cl2 N2 O2

RN 451486-54-7 HCAPLUS

CN Methanone, (3-bromo-6-methoxy-2-methylphenyl) (2,3,4-trimethoxy-6-methylphenyl)-, mixt. with 5-chloro-6-(2-chloro-6-fluorophenyl)-N-(2,2,2-trifluoroethyl) [1,2,4] triazolo[1,5-a] pyrimidin-7-amine (9CI) (CA INDEX NAME)

CM 1

CRN 220899-03-6 CMF C19 H21 Br O5

CM 2

CRN 214633-87-1 CMF C13 H7 Cl2 F4 N5

RN 451486-55-8 HCAPLUS

CN Methanone, (3-bromo-6-methoxy-2-methylphenyl) (2,3,4-trimethoxy-6-methylphenyl)-, mixt. with 5-chloro-N-(2,2,2-trifluoro-1-methylethyl)-6-(2,4,6-trifluorophenyl)[1,2,4]triazolo[1,5-a]pyrimidin-7-amine (9CI) (CA INDEX NAME)

CM 1

CRN 220899-03-6 CMF C19 H21 Br O5

CM 2

CRN 214633-94-0 CMF C14 H8 Cl F6 N5

RN 451486-56-9 HCAPLUS

CN Manganese, [[2-[(dithiocarboxy)amino]ethyl]carbamodithioato(2-)-.kappa.S,.kappa.S']-, mixt. with (3-bromo-6-methoxy-2-methylphenyl)(2,3,4-trimethoxy-6-methylphenyl)methanone, 4-[3-(4-chlorophenyl)-3-(3,4-dimethoxyphenyl)-1-oxo-2-propenyl]morpholine and [[2-[(dithiocarboxy)amino]ethyl]carbamodithioato(2-)-.kappa.S,.kappa.S']zinc (9CI) (CA INDEX NAME)

CM 1

CRN 220899-03-6 CMF C19 H21 Br O5

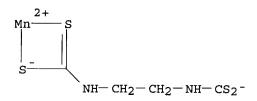
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CRN 110488-70-5

CMF C21 H22 Cl N O4

CM 3

CRN 12427-38-2 CMF C4 H6 Mn N2 S4 CCI CCS



CM 4

CRN 12122-67-7 CMF C4 H6 N2 S4 Zn CCI CCS

RN 451486-57-0 HCAPLUS
CN Benzeneacetic acid, .alpha.-(methoxyimino)-2-[(2-methylphenoxy)methyl]-,
methyl ester, (.alpha.E)-, mixt. with (3-bromo-6-methoxy-2methylphenyl) (2,3,4-trimethoxy-6-methylphenyl)methanone and
rel-1-[[(2R,3S)-3-(2-chlorophenyl)-2-(4-fluorophenyl)oxiranyl]methyl]-1H1,2,4-triazole (9CI) (CA INDEX NAME)

CM 1

CRN 220899-03-6 CMF C19 H21 Br O5

CM 2

CRN 143390-89-0 CMF C18 H19 N O4

Double bond geometry as shown.

CM 3

CRN 133855-98-8 CMF C17 H13 C1 F N3 O

Relative stereochemistry.

RN 451486-58-1 HCAPLUS

CN Methanone, (3-bromo-6-methoxy-2-methylphenyl) (2,3,4-trimethoxy-6-methylphenyl)-, mixt. with copper chloride oxide hydrate (9CI) (CA INDEX NAME)

CRN 220899-03-6 CMF C19 H21 Br O5

Br OMe Мe OMe OMe OMe Me

> CM2

1332-40-7 CRN

Unspecified CMF

CCI MAN

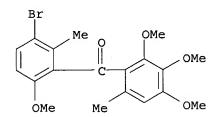
\*\*\* STRUCTURE DIAGRAM IS NOT AVAILABLE \*\*\*

451486-59-2 HCAPLUS RN

Methanone, (3-bromo-6-methoxy-2-methylphenyl)(2,3,4-trimethoxy-6-CNmethylphenyl) -, mixt. with rel-1-[[(2R,3S)-3-(2-chlorophenyl)-2-(4fluorophenyl)oxiranyl]methyl]-1H-1,2,4-triazole and (2R,6S)-rel-4-[3-[4-(1,1-dimethylethyl)phenyl]-2-methylpropyl]-2,6-dimethylmorpholine (9CI) (CA INDEX NAME)

CM 1

CRN 220899-03-6 CMF C19 H21 Br O5



CM 2

CRN 133855-98-8

CMF C17 H13 C1 F N3 O

Relative stereochemistry.

CRN 67564-91-4 CMF C20 H33 N O

Relative stereochemistry.

RN 451486-60-5 HCAPLUS

CN Methanone, (3-bromo-6-methoxy-2-methylphenyl)(2,3,4-trimethoxy-6-methylphenyl)-, mixt. with 5,7-dichloro-4-(4-fluorophenoxy)quinoline (9CI) (CA INDEX NAME)

CM 1

CRN 220899-03-6 CMF C19 H21 Br O5

CM 2

CRN 124495-18-7 CMF C15 H8 Cl2 F N O

RN 451486-61-6 HCAPLUS

CN 1,2,3-Benzothiadiazole-7-carbothioic acid, S-methyl ester, mixt. with (3-bromo-6-methoxy-2-methylphenyl)(2,3,4-trimethoxy-6-methylphenyl)methanone (9CI) (CA INDEX NAME)

CM 1

CRN 220899-03-6 CMF C19 H21 Br O5

CM 2

CRN 135158-54-2 CMF C8 H6 N2 O S2

L31 ANSWER 10 OF 27 HCAPLUS COPYRIGHT 2004 ACS on STN

AN 2002:615338 HCAPLUS

DN 137:151318

ED Entered STN: 16 Aug 2002

TI Synergistic fungicidal compositions containing a benzophenone and an oxime

```
ether derivative
    Eicken, Karl; Rose, Ingo; Ammermann, Eberhard; Stierl, Reinhard; Lorenz,
IN
    Gisela; Strathmann, Siegfried; Scherer, Maria; Schelberger, Klaus; Haden,
    Basf Aktiengesellschaft, Germany
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    PCT Int. Appl., 25 pp.
    CODEN: PIXXD2
DT
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    German
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    ICM A01N035-04
     ICS A01N037-52; A01N043-10; A01N043-56; A01N043-36; A01N043-50;
         A01N043-78; A01N043-08; A01N043-58; A01N043-54
    5-2 (Agrochemical Bioregulators)
FAN.CNT 1
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                       A01N043-54
                      4H011/AA01; 4H011/BA01; 4H011/BA06; 4H011/BB05;
JP 2004521896
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                        4H011/BC07; 4H011/DA02; 4H011/DA15; 4H011/DA16;
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                                                                           < - -
US 2004054000
    MARPAT 137:151318
OS
GI
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The invention relates to synergistic fungicidal compns. comprising benzophenones I (R1 = Cl, Me, MeO, AcO, pivaloyloxy or OH; R2 = Cl or Me; R3 = H, halo or Me; R4 = Cl-6 alkyl or benzyl, whereby the Ph part of the benzyl group can bear a halo or Me substituent) and oxime ether derivs. II [X1 = Cl-4 haloalkyl or haloalkoxy; X1-5 = H, halo, Cl-4 alkyl, haloalkyl, alkoxy or haloalkoxy; Y1 = (un)substituted Cl-4 alkyl, C2-6 alkenyl, alkynyl or Cl-4 alkyl(C3-7)cycloalkyl; Y2 = (un)substituted Ph or heterocyclyl; Y3, Y4 = H, Cl-4 alkyl, alkoxy, alkylthio, alkylamino, haloalkyl or haloalkoxy].

ST synergism fungicide benzophenone oxime ether derivs

II

IT Fungicides

(synergistic, agrochem.; compns. containing a benzophenone and an oxime ether derivative)

IT 445249-42-3 445249-43-4

RL: AGR (Agricultural use); BIOL (Biological study); USES (Uses) (synergistic fungicidal composition)

RE.CNT 4 THERE ARE 4 CITED REFERENCES AVAILABLE FOR THIS RECORD RE

- (1) American Cyanamid Co; EP 1023834 A 2000 HCAPLUS
- (2) Basf Ag; DE 19722223 A 1998 HCAPLUS
- (3) Nippon Soda Co; EP 0919126 A 1999 HCAPLUS
- (4) Novartis-Erfindungen Verwal Tungsgesellschaft M B H; WO 0072678 A 2000 HCAPLUS

IT 445249-42-3 445249-43-4

RL: AGR (Agricultural use); BIOL (Biological study); USES (Uses) (synergistic fungicidal composition)

RN 445249-42-3 HCAPLUS

CN Benzeneacetamide, N-[[(cyclopropylmethoxy)amino][6-(difluoromethoxy)-2,3-difluorophenyl]methylene]-, mixt. with (3-bromo-6-methoxy-2-methylphenyl)(2,3,4-trimethoxy-6-methylphenyl)methanone (9CI) (CA INDEX NAME)

CM 1

CRN 221201-92-9 CMF C20 H18 F4 N2 O3

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 & O \\
 & Ph-CH_2-C-NH \\
\hline
 & CH_2-O-N=C \\
\hline
 & F_2CH-O
\end{array}$$

CRN 220899-03-6 CMF C19 H21 Br O5

RN 445249-43-4 HCAPLUS

CN Benzeneacetamide, N-[[(cyclopropylmethoxy)amino][6-(difluoromethoxy)-2,3-difluorophenyl]methylene]-, mixt. with (3-chloro-6-hydroxy-2-methylphenyl)(2,3,4-trimethoxy-6-methylphenyl)methanone (9CI) (CA INDEX NAME)

CM 1

CRN 252955-12-7 CMF C18 H19 Cl O5

CM 2

CRN 221201-92-9 CMF C20 H18 F4 N2 O3

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Ph-CH<sub>2</sub>-C-NH F

CH<sub>2</sub>-O-N-C

F<sub>2</sub>CH-O

L31 ANSWER 11 OF 27 HCAPLUS
AN 2002:555275 HCAPLUS
DN 137:105162
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ANSWER 11 OF 27 HCAPLUS COPYRIGHT 2004 ACS on STN
DN
ED
     Entered STN: 26 Jul 2002
     Synergistic fungicidal mixtures comprising benzophenone and imidazole
TI
IN
     Ptock, Arne; Rose, Ingo; Ammermann, Eberhard; Stierl, Reinhard; Lorenz,
     Gisela; Strathmann, Siegfried; Scherer, Maria; Schelberger, Klaus; Haden,
     Basf Aktiengesellschaft, Germany
PA
SO
     PCT Int. Appl., 25 pp.
     CODEN: PIXXD2
DT
     Patent
     German
LA
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     ICM A01N043-90
     ICS A01N035-02; A01N035-06; A01N035-04; A01N043-90; A01N037-02;
          A01N035-06; A01N035-04
     5-2 (Agrochemical Bioregulators)
FAN.CNT 1
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                                DATE
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                        4H006/AA03; 4H006/AB03; 4H011/AA01; 4H011/BA01;
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US 2004053984 ECLA A01N043/90 OS MARPAT 137:105162 GI < - -

The title mixts. contain (a) benzophenones I, where R1 = chloro, Me, methoxy, acetoxy, pivaloyloxy or hydroxy; R2 = chloro or methyl; R3 =H, halogen or Me and R4 = C1-C6 alkyl or benzyl, where the Ph moiety of the benzyl group can be halo- or methyl-substituted; and (b) imidazole derivs. II, where Y = bromine or chlorine.

ST synergism fungicide benzophenone imidazole derivs

IT Fungicides

(synergistic, agrochem.; mixts. comprising benzophenone and imidazole derivs.)

IT 443102-06-5 443102-09-8

RL: AGR (Agricultural use); BIOL (Biological study); USES (Uses) (synergistic fungicidal mixture)

188026-76-8D, mixts. with benzophenones 188027-78-3D, mixts. with benzophenones

RL: AGR (Agricultural use); BIOL (Biological study); USES (Uses) (synergistic fungicidal mixts.)

RE.CNT 7 THERE ARE 7 CITED REFERENCES AVAILABLE FOR THIS RECORD

(1) American Cyanamid Co; EP 0727141 A 1996 HCAPLUS

- (2) American Cyanamid Co; EP 0897904 A 1999 HCAPLUS
- (3) American Cyanamid Co; EP 0899255 A 1999 HCAPLUS
- (4) American Cyanamid Co; EP 0967196 A 1999 HCAPLUS
- (5) American Cyanamid Co; EP 1023834 A 2000 HCAPLUS
- (6) Bayer Ag; DE 19716256 A 1998 HCAPLUS
- (7) Tiemann, R; WO 9706171 A 1997 HCAPLUS

IT 443102-06-5 443102-09-8

RL: AGR (Agricultural use); BIOL (Biological study); USES (Uses) (synergistic fungicidal mixture)

RN 443102-06-5 HCAPLUS

CN Methanone, (3-bromo-6-methoxy-2-methylphenyl) (2,3,4-trimethoxy-6-methylphenyl)-, mixt. with 6-bromo-5-[(3,5-dimethyl-4-isoxazolyl)sulfonyl]-2,2-difluoro-5H-1,3-dioxolo[4,5-f]benzimidazole (9CI) (CA INDEX NAME)

CM 1

CRN 220899-03-6 CMF C19 H21 Br O5

CRN 188026-76-8 CMF C13 H8 Br F2 N3 O5 S

RN 443102-09-8 HCAPLUS

CN Methanone, (3-chloro-6-hydroxy-2-methylphenyl) (2,3,4-trimethoxy-6-methylphenyl)-, mixt. with 6-bromo-5-[(3,5-dimethyl-4-isoxazolyl)sulfonyl]-2,2-difluoro-5H-1,3-dioxolo[4,5-f]benzimidazole (9CI) (CA INDEX NAME)

CM 1

CRN 252955-12-7 CMF C18 H19 C1 O5

CM 2

CRN 188026-76-8 CMF C13 H8 Br F2 N3 O5 S

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L31 ANSWER 12 OF 27 HCAPLUS COPYRIGHT 2004 ACS on STN
    2002:555274 HCAPLUS
ΑN
DN
    137:105161
    Entered STN: 26 Jul 2002
ED
     Synergistic fungicidal mixtures of benzophenones and N-
TΙ
     biphenylnicotinamides
     Eicken, Karl; Rose, Ingo; Ammermann, Eberhard; Stierl, Reinhard; Lorenz,
IN
     Gisela; Strathmann, Siegfried; Scherer, Maria; Schelberger, Klaus; Haden,
     Egon; Hampel, Manfred
     Basf Aktiengesellschaft, Germany
PA
     PCT Int. Appl., 27 pp.
SO
     CODEN: PIXXD2
DT
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     German
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     ICM A01N043-40
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     ICS A01N043-40; A01N037-02; A01N035-06; A01N035-04
     5-2 (Agrochemical Bioregulators)
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US 2004077692 ECLA A01N043/40 OS MARPAT 137:105161 GI <--

$$R^1$$
 O Me  $R^2$  OMe OMe

The title mixts. contain (a) benzophenones I, wherein R1 represents Cl, Me, methoxy, acetoxy, pivaloyloxy or hydroxy; R2 represents Cl or Me; R3 represents H, halogen or Me; and R4 represents C1-C6 alkyl or benzyl, whereby the Ph part of the benzyl group may carry a halogen or Me substituent; and (b) N-biphenylnicotinamides II, wherein R6 and R7 represent halogen, nitro, cyano, alkyl, alkenyl, alkynyl, haloalkyl, halogenalkenyl, haloalkynyl, alkoxy, haloalkoxy, alkylthio, haloalkylthio, alkylsulfinyl or alkylsulfonyl; x is 1, 2, 3 or 4; and y is 1, 2, 3, 4 or 5.

ST synergism fungicide benzophenone nicotinamide derivs

IT Fungicides

(synergistic, agrochem; mixts. of benzophenones and N-biphenylnicotinamides)

IT 443102-04-3 443102-05-4

RL: AGR (Agricultural use); BIOL (Biological study); USES (Uses) (synergistic fungicidal mixture)

RE.CNT 12 THERE ARE 12 CITED REFERENCES AVAILABLE FOR THIS RECORD RE

- (1) American Cyanamid Co; EP 0727141 A 1996 HCAPLUS
- (2) American Cyanamid Co; EP 0897904 A 1999 HCAPLUS
- (3) American Cyanamid Co; EP 0899255 A 1999 HCAPLUS
- (4) American Cyanamid Co; EP 0967196 A 1999 HCAPLUS
- (5) American Cyanamid Co; EP 1023834 A 2000 HCAPLUS
- (6) Schelberger, K; WO 9931951 A 1999 HCAPLUS

Ι

- (7) Schelberger, K; WO 9931976 A 1999 HCAPLUS
- (8) Schelberger, K; WO 9931979 A 1999 HCAPLUS
- (9) Schelberger, K; WO 9931981 A 1999 HCAPLUS
- (10) Schelberger, K; WO 9931983 A 1999 HCAPLUS
- (11) Schelberger, K; WO 9931984 A 1999 HCAPLUS
- (12) Schelberger, K; WO 9931985 A 1999 HCAPLUS

IT 443102-04-3 443102-05-4

RL: AGR (Agricultural use); BIOL (Biological study); USES (Uses) (synergistic fungicidal mixture)

RN 443102-04-3 HCAPLUS

CN 3-Pyridinecarboxamide, 2-chloro-N-(4'-chloro[1,1'-biphenyl]-2-yl)-, mixt. with (3-bromo-6-methoxy-2-methylphenyl)(2,3,4-trimethoxy-6-methylphenyl)methanone (9CI) (CA INDEX NAME)

CM 1

CRN 220899-03-6 CMF C19 H21 Br O5

CRN 188425-85-6 CMF C18 H12 Cl2 N2 O

RN 443102-05-4 HCAPLUS
CN 3-Pyridinecarboxamide, 2-chloro-N-(4'-chloro[1,1'-biphenyl]-2-yl)-, mixt.
with (3-chloro-6-hydroxy-2-methylphenyl)(2,3,4-trimethoxy-6methylphenyl)methanone (9CI) (CA INDEX NAME)

CM 1

CRN 252955-12-7 CMF C18 H19 Cl O5

CM 2

CRN 188425-85-6 CMF C18 H12 C12 N2 O

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ANSWER 13 OF 27 HCAPLUS COPYRIGHT 2004 ACS on STN
ΑN
    2002:555272 HCAPLUS
DN
    137:105160
    Entered STN: 26 Jul 2002
ED
    Synergistic fungicide mixtures
TI
    Mueller, Bernd; Rose, Ingo; Ammermann, Eberhard; Stierl, Reinhard; Lorenz,
    Gisela; Strathmann, Siegfried; Scherer, Maria; Schelberger, Klaus;
    Leyendecker, Joachim; Haden, Egon
    Basf Aktiengesellschaft, Germany
PA
    PCT Int. Appl., 28 pp.
SO
    CODEN: PIXXD2
DT
    Patent
LΑ
    German
    ICM A01N035-04
IC
    ICS A01N047-24; A01N043-653
    5-2 (Agrochemical Bioregulators)
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                                          APPLICATION NO.
                                                                 DATE
    PATENT NO.
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                                         WO 2002-EP411
                                                                  20020117 <--
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                               20020725
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    WO 2002056686
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            GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR,
            LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, OM, PH,
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            TJ, TM
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            CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR,
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                                          EP 2002-710012
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                               20040630
    EP 1353554
                         В1
           AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT,
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                         Α
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    BG 107964
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    WO 2002-EP411
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CLASS
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PATENT NO.
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WO 2002056686
                ICM
                       A01N035-04
                ICS
                       A01N047-24; A01N043-653
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JP 2004521887 FTERM 4H011/AA01; 4H011/AA03; 4H011/BA06; 4H011/BB05; 4H011/BB09; 4H011/BB13 <-US 2004077700 ECLA A01N035/04; A01N047/24 <--

 $\mathbb{R}^1$   $\mathbb{N}^2$   $\mathbb{N}^4$   $\mathbb{N}^3$   $\mathbb{N}^4$   $\mathbb$ 

$$\begin{array}{c} & & \\ & & \\ & & \\ & & \\ & & \\ \text{MeO-CO} \end{array}$$

The title mixts. comprise a benzophenone I (R1 = C1, Me, AcO, pivaloyloxy or OH; R2 = C1 or Ne; R3 = H, halo or Me; R4 = alkyl, benzyl, halobenzyl or methylbenzyl) a carbamate II (R = halo, alkyl or haloalkyl; n = 1 or 2) and an azole derivative, such as epoxyconazole, metconazole, propiconazole or tebuconazole.

ΙI

ST synergism fungicide benzophenone carbamate azole derivs

IT Fungicides

GΙ

(synergistic, agrochem.; mixts. of benzophenone carbamate and azole derivative,)

1T 60207-90-1D, Propiconazole, mixts. with benzophenone ans carbamate derivs. 107534-96-3D, Tebuconazole, mixts. with benzophenone ans carbamate derivs. 125116-23-6D, Metconazole, mixts. with benzophenone ans carbamate derivs. 133855-98-8D, mixts. with benzophenone ans carbamate derivs. 178928-70-6D, mixts. with benzophenone ans carbamate derivs. 443102-41-8 443102-48-5 443102-54-3

RL: AGR (Agricultural use); BIOL (Biological study); USES (Uses) (synergistic fungicide mixture)

RE.CNT 4 THERE ARE 4 CITED REFERENCES AVAILABLE FOR THIS RECORD RE

(1) American Cyanamid Co; EP 1023834 A 2000 HCAPLUS

(2) Leyendecker, J; WO 9740688 A 1997 HCAPLUS

(3) Leyendecker, J; EP 0900021 A 1999 HCAPLUS

(4) Novartis Erfind Verwalt Gmbh; WO 0076317 A 2000 HCAPLUS

A43102-41-8 443102-48-5 443102-54-3
RL: AGR (Agricultural use); BIOL (Biological study); USES (Uses)
(synergistic fungicide mixture)

RN 443102-41-8 HCAPLUS

CN Carbamic acid, [2-[[[1-(4-chlorophenyl)-1H-pyrazol-3-yl]oxy]methyl]phenyl]methoxy-, methyl ester, mixt. with (3-bromo-6-methoxy-2-methylphenyl)(2,3,4-trimethoxy-6-methylphenyl)methanone and rel-1-[[(2R,3S)-3-(2-chlorophenyl)-2-(4-methylphenyl)methanone

fluorophenyl)oxiranyl]methyl]-1H-1,2,4-triazole (9CI) (CA INDEX NAME)

CM 1

CRN 220899-03-6 CMF C19 H21 Br O5

CM 2

CRN 175013-18-0 CMF C19 H18 C1 N3 O4

$$\begin{array}{c|c} & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & \\ & & & \\ & \\ & & \\ & & \\ & & \\ & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ &$$

CM 3

CRN 133855-98-8 CMF C17 H13 Cl F N3 O

Relative stereochemistry.

RN 443102-48-5 HCAPLUS

CN Carbamic acid, methoxy[2-[[[1-(4-methylphenyl)-1H-pyrazol-3-yl]oxy]methyl]phenyl]-, methyl ester, mixt. with (3-bromo-6-methoxy-2-methylphenyl)(2,3,4-trimethoxy-6-methylphenyl)methanone and

rel-1-[[(2R,3S)-3-(2-chlorophenyl)-2-(4-fluorophenyl)oxiranyl]methyl]-1H-1,2,4-triazole (9CI) (CA INDEX NAME)

CM 1

CRN 220899-03-6 CMF C19 H21 Br O5

CM 2

CRN 175013-22-6 CMF C20 H21 N3 O4

CM 3

CRN 133855-98-8 CMF C17 H13 Cl F N3 O

Relative stereochemistry.

RN 443102-54-3 HCAPLUS

CN Carbamic acid, [2-[[[1-(4-chlorophenyl)-1H-pyrazol-3-yl]oxy]methyl]phenyl]methoxy-, methyl ester, mixt. with

(3-chloro-6-hydroxy-2-methylphenyl) (2,3,4-trimethoxy-6-methylphenyl) methanone and rel-1-[[(2R,3S)-3-(2-chlorophenyl)-2-(4-fluorophenyl) oxiranyl]methyl]-1H-1,2,4-triazole (9CI) (CA INDEX NAME)

CM 1

CRN 252955-12-7 CMF C18 H19 Cl O5

CM 2

CRN 175013-18-0 CMF C19 H18 C1 N3 O4

CM 3

CRN 133855-98-8 CMF C17 H13 Cl F N3 O

Relative stereochemistry.

L31 ANSWER 14 OF 27 HCAPLUS COPYRIGHT 2004 ACS on STN

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AN
    2002:555271 HCAPLUS
DN
    137:105159
ED
    Entered STN: 26 Jul 2002
TI
    Synergistic fungicidal mixtures
    Grote, Thomas; Rose, Ingo; Ammermann, Eberhard; Stierl, Reinhard; Lorenz,
IN
    Gisela; Strathmann, Siegfried; Scherer, Maria; Schelberger, Klaus; Haden,
PA
    Basf Aktiengesellschaft, Germany
SO
    PCT Int. Appl., 16 pp.
    CODEN: PIXXD2
DT
    Patent
    German
LA
IC
    ICM A01N035-00
    5-2 (Agrochemical Bioregulators)
CC
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                     KIND DATE
    PATENT NO.
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    WO 2002056685
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                       A2
                              20020725
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                             20020912
    WO 2002056685
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            GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR,
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                             20040722 JP 2002-557204
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PRAI DE 2001-10117260
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    WO 2002-EP412
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CLASS
            CLASS PATENT FAMILY CLASSIFICATION CODES
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 WO 2002056685 ICM A01N035-00
 JP 2004521886 FTERM 4H011/AA01; 4H011/BA06; 4H011/BB04; 4H011/BB05;
                      4H011/BC03; 4H011/DA16; 4H011/DF04
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US 2004054011 ECLA
                      A01N035/04; A01N037/50
    MARPAT 137:105159
os
GI
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$$\mathbb{R}^1$$
 O Me  $\mathbb{R}^2$  OMe  $\mathbb{R}^3$  OMe  $\mathbb{R}^4$ 

The title mixts. contain (a) benzophenones I, where R1 = chloro, Me, methoxy, acetoxy, pivaloyloxy or hydroxy; R2 = chloro or methyl; R3 = H, halogen or Me and R4 = C1-C6 alkyl or benzyl, where the Ph moiety of the benzyl group may be halo- or methyl-substituted, and (b) oxime ethers II, where X = NH or O; R5, R7 = C1-C4 alkyl or cyclopropyl; R6, R8 = C1-C4 alkyl, C3-C4 alkenyl or cyclopropyl.

ST synergism fungicide benzophenones oxime ether

IT Fungicides

(synergistic, agrochem.; mixts. containing benzophenones and oxime ethers)

IT 443105-10-0 443105-16-6

RL: AGR (Agricultural use); BIOL (Biological study); USES (Uses) (synergistic fungicidal mixture)

IT 443105-10-0 443105-16-6

RL: AGR (Agricultural use); BIOL (Biological study); USES (Uses) (synergistic fungicidal mixture)

RN 443105-10-0 HCAPLUS

CN Benzeneacetamide, .alpha.-(methoxyimino)-2-[5-(methoxyimino)-4,6-dimethyl-2,8-dioxa-3,7-diazanona-3,6-dien-1-yl]-N-methyl-, mixt. with (3-bromo-6-methoxy-2-methylphenyl) (2,3,4-trimethoxy-6-methylphenyl) methanone (9CI) (CA INDEX NAME)

CM 1

CRN 220899-03-6 CMF C19 H21 Br O5

CRN 189892-69-1 CMF C18 H25 N5 O5

RN 443105-16-6 HCAPLUS

CN Benzeneacetamide, .alpha.-(methoxyimino)-2-[5-(methoxyimino)-4,6-dimethyl-2,8-dioxa-3,7-diazanona-3,6-dien-1-yl]-N-methyl-, mixt. with (3-chloro-6-hydroxy-2-methylphenyl)(2,3,4-trimethoxy-6-methylphenyl)methanone (9CI) (CA INDEX NAME)

CM 1

CRN 252955-12-7 CMF C18 H19 Cl O5

CM 2

CRN 189892-69-1 CMF C18 H25 N5 O5

L31 ANSWER 15 OF 27 HCAPLUS COPYRIGHT 2004 ACS on STN

AN 2001:797993 HCAPLUS

DN 135:314876

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ED
     Entered STN: 02 Nov 2001
     Synergistic fungicidal compositions containing benzophenone derivatives
ΤI
     and azoxystrobin
IN
     Leadbitter, Neil
     Syngenta Participations A.-G., Switz.
PA
so
     PCT Int. Appl., 20 pp.
     CODEN: PIXXD2
DT
     Patent
     English
LA
IC
     ICM A01N043-54
     ICS A01N043-54; A01N037-02; A01N035-04
     5-2 (Agrochemical Bioregulators)
CC
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                                                                   DATE
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                         KIND
                                DATE
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                        A01N043/54
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os
    MARPAT 135:314876
GI
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$$R^1$$
 Me OMe  $R^5$   $R^4$   $R^3$   $R^2$ 

Ι

AB Synergistic fungicidal compns. for combating phytopathogenic diseases on crop plants comprise (a) a benzophenone of I (R1 = methoxy, Me, hydroxy, acetoxy, or pivaloyloxy; R2 = C1-C4 alkoxy or 2-halogenbenzyloxy; R3 = C1-C4 alkoxy; R4 = C1-C4 alkyl, halo, or trifluoromethyl; R5 = H, halo, C1-C4 alkoxy, trifluoromethyl, or nitro) in association with (b) azoxystrobin.

benzophenone deriv azoxystrobin mixt synergistic fungicide STIT Fungicides (synergistic; synergistic fungicidal compns. containing benzophenone derivs. and azoxystrobin) 131860-33-8D, Azoxystrobin, mixts. with benzophenone derivs. IT 368872-63-3 368872-62-2 368872-60-0 368872-61-1 368872-68-8 368872-66-6 368872-67-7 368872-64-4 368872-65-5 368872-71-3 368872-72-4 368872-69-9 **368872-70-2** RL: AGR (Agricultural use); BIOL (Biological study); USES (Uses) (synergistic fungicidal compns. containing) THERE ARE 5 CITED REFERENCES AVAILABLE FOR THIS RECORD RE.CNT 5 RE (1) American Cyanamid Co; EP 0897904 A 1999 HCAPLUS (2) American Cyanamid Co; EP 0899255 A 1999 HCAPLUS (3) American Cyanamid Co; EP 0933025 A 1999 HCAPLUS (4) American Cyanamid Co; EP 1023834 A 2000 HCAPLUS (5) Novartis Erfind Verwalt Gmbh; WO 0076317 A 2000 HCAPLUS 368872-60-0 368872-70-2 368872-72-4 IT RL: AGR (Agricultural use); BIOL (Biological study); USES (Uses) (synergistic fungicidal compns. containing) 368872-60-0 HCAPLUS RNBenzeneacetic acid, 2-[[6-(2-cyanophenoxy)-4-pyrimidinyl]oxy]-.alpha.-CN (methoxymethylene) -, methyl ester, (.alpha.E) -, mixt. with (3-bromo-6-methoxy-2-methylphenyl) (2,3,4-trimethoxy-6methylphenyl) methanone (9CI) (CA INDEX NAME) CM CRN 220899-03-6 CMF C19 H21 Br O5

CM 2

CRN 131860-33-8 CMF C22 H17 N3 O5

Double bond geometry as shown.

RN 368872-70-2 HCAPLUS

CN Benzeneacetic acid, 2-[[6-(2-cyanophenoxy)-4-pyrimidinyl]oxy]-.alpha.(methoxymethylene)-, methyl ester, (.alpha.E)-, mixt. with
(3-bromo-6-hydroxy-2-methylphenyl)(2,3,4-trimethoxy-6methylphenyl)methanone (9CI) (CA INDEX NAME)

CM 1

CRN 252955-10-5 CMF C18 H19 Br O5

CM 2

CRN 131860-33-8 CMF C22 H17 N3 O5

Double bond geometry as shown.

RN 368872-72-4 HCAPLUS

CN Benzeneacetic acid, 2-[[6-(2-cyanophenoxy)-4-pyrimidinyl]oxy]-.alpha.(methoxymethylene)-, methyl ester, (.alpha.E)-, mixt. with
(3-chloro-6-hydroxy-2-methylphenyl)(2,3,4-trimethoxy-6methylphenyl)methanone (9CI) (CA INDEX NAME)

CRN 252955-12-7 CMF C18 H19 Cl O5

CM 2

CRN 131860-33-8 CMF C22 H17 N3 O5

Double bond geometry as shown.

```
ANSWER 16 OF 27 HCAPLUS COPYRIGHT 2004 ACS on STN
L31
     2001:797992 HCAPLUS
AN
     135:328375
DN
     Entered STN: 02 Nov 2001
ED
     Synergistic fungicidal mixtures of (E,E)-.alpha.-(Methoxyimino)-2-[[[[1-(3-
ΤI
     trifluoromethylphenyl)ethylidene]amino]oxy]methyl]benzenacetic acid Me
     ester with benzophenones
     Leadbitter, Neil
IN
     Bayer Aktiengesellschaft, Germany
PA
     PCT Int. Appl., 18 pp.
SO
     CODEN: PIXXD2
DT
     Patent
     English
LA
     ICM A01N037-50
IC
     ICS A01N037-50; A01N037-02; A01N035-04
     5-2 (Agrochemical Bioregulators)
CC
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                                            APPLICATION NO.
                         KIND
                                DATE
     PATENT NO.
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                                            WO 2001-EP4228
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            RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, US, UZ,
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CLASS
                 CLASS PATENT FAMILY CLASSIFICATION CODES
 PATENT NO.
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                       A01N037-50
                ICM
WO 2001080640
                       A01N037-50; A01N037-02; A01N035-04
                 ICS
    MARPAT 135:328375
OS
GT
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Mixts. of (E,E)-.alpha.-(Methoxyimino)-2-[[[[1-(3-AB trifluoromethylphenyl)ethylidene]amino]oxy]methyl]benzenacetic acid Me ester with benzophenones I (R1 = C1, Me; R2 = H, Br, C1, CF3; R3 = H, acetyl, pivaloyl) are used as synergistic fungicides for treatment of phytopathogenic diseases of crop plants. benzenacetate deriv benzophenone mixt synergistic fungicide ST IT Fungicides (synergistic; synergistic fungicidal mixts. of {(E,E)-.alpha.-(Methoxyimino) -2-[[[[1-(phenyl)ethylidene]amino]oxy]methyl]benzenacetic } acid Me ester with benzophenones) 141517-21-7D, mixts. with benzophenones 369374-47-0 ITRL: AGR (Agricultural use); BIOL (Biological study); USES (Uses) (synergistic fungicidal composition containing) THERE ARE 5 CITED REFERENCES AVAILABLE FOR THIS RECORD RE.CNT 5 RE (1) American Cyanamid Co; EP 0967196 A 1999 HCAPLUS (2) American Cyanamid Co; EP 1023834 A 2000 HCAPLUS (3) Ciba Geigy Ag; EP 0460575 A 1991 HCAPLUS (4) Novartis Erfind Verwalt Gmbh; WO 0072677 A 2000 HCAPLUS (5) Novartis Erfind Verwalt Gmbh; WO 0072678 A 2000 HCAPLUS 369374-47-0 IT RL: AGR (Agricultural use); BIOL (Biological study); USES (Uses) (synergistic fungicidal composition containing) 369374-47-0 HCAPLUS RNBenzeneacetic acid, .alpha.-(methoxyimino)-2-[[[(E)-[1-[3-CN (trifluoromethyl)phenyl]ethylidene]amino]oxy]methyl]-, methyl ester, (.alpha.E)-, mixt. with (3-bromo-6-hydroxy-2-methylphenyl)(2,3,4trimethoxy-6-methylphenyl)methanone (9CI) (CA INDEX NAME)

CM 1

CRN 252955-10-5 CMF C18 H19 Br O5

CM 2

CRN 141517-21-7 CMF C20 H19 F3 N2 O4

Double bond geometry as shown.

$$F_3C$$

$$E$$

$$MeO$$

$$E$$

$$O$$

$$MeO$$

$$O$$

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L31 ANSWER 17 OF 27 HCAPLUS COPYRIGHT 2004 ACS on STN
     2001:635833 HCAPLUS
AN
     135:191652
DN
     Entered STN: 31 Aug 2001
ED
     Synergistic fungicidal mixtures against downy mildew containing
ΤI
     benzophenone and valinamide derivatives
     Sieverding, Ewald; Reichert, Gunter
IN
     Basf Aktiengesellschaft, Germany
PA
     PCT Int. Appl., 26 pp.
SO
     CODEN: PIXXD2
     Patent
DT
     English
LΑ
     ICM A01N035-04
IC
     ICS A01N035-04; A01N047-12
     5-2 (Agrochemical Bioregulators)
CC
FAN.CNT 1
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                                DATE
                                            APPLICATION NO.
                                                                   DATE
     PATENT NO.
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                                            WO 2001-EP1719
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ΡI
     WO 2001062083
                         A2
                                20010830
     WO 2001062083
                         A3
                                20020627
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             HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT,
             LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, PL, PT, RO, RU,
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            DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR, BF,
            BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG
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                               20040224
    US 6696497
                         B2
                                                                  20010216 <--
                               20040625
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                         Α
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PRAI US 2000-184277P
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                               20010216
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                       A01N035-04
WO 2001062083
                TCS
                       A01N035-04; A01N047-12
US 2002065313
                ECLA
                       A01N047/12
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    MARPAT 135:191652
OS
GI
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$$R^{3}m$$
 $R^{1}$ 
 $R^{7}n$ 
 $R^{6}$ 
 $R^{5}$ 
 $R^{7}n$ 
 $R^{6}$ 
 $R^{5}$ 

Synergistic fungicidal compns. comprising (a) at least one benzophenone of AΒ I (R1 = halo, (un) substituted alkyl, alkanoyloxy, alkoxy, hydroxy; R2 = halo, (un) substituted alkyl; R3 = halo, (un) substituted alkyl, alkoxy, nitro; R4 = halo, cyano, carboxy, hydroxy, nitro, (un) substituted alkyl, alkoxy, alkenyl, alkylthio, alkylsulphinyl, alkylsulfonyl, amino; R5 = (un) substituted alkyl; R6 = halo, nitro, (un) substituted alkyl, alkoxy, alkenyloxy, alkynyloxy, alkylthio,cycloalkyl, cycloalkyloxy, aryloxy; R7 = halo, (un) substituted alkyl, alkenyl, alkynyl, alkoxy, alkenyloxy, alkynyloxy, cycloalkyl, cycloalkoxy; m = 0, 1-3; n = 0, 1), and (b) at least one valinamide II (Ar = Ph, naphthyl, benzthiazolyl, benzimidazolyl, benzoxazoyland; R8 = C1-C6alkyl) are effective for controlling phytopathogenic fungi, such as downy mildew, at a locus. fungicide synergistic benzophenone valinamide deriv downy mildew ST

Peronosporaceae IT

(synergistic fungicidal mixts. against downy mildew containing benzophenone and valinamide derivs.)

IT Fungicides

(synergistic; synergistic fungicidal mixts. against downy mildew containing benzophenone and valinamide derivs.)

119-61-9D, benzophenone, derivs., mixts. with valinamide derivs. IT 13474-14-1D, Valinamide, derivs., mixts. with benzophenone derivs. 140923-17-7D, Iprovalicarb, mixts. with benzophenone derivs. 183725-88-4D, mixts. with 161011-89-8D, mixts. with benzophenone derivs.

183726-56-9D, mixts. with valinamide derivs. valinamide derivs. 183726-77-4D, mixts. with valinamide derivs. 220899-03-6D, 221051-20-3D, mixts. with valinamide mixts. with valinamide derivs. 345205-72-3D, mixts. with benzophenone derivs. 357278-34-3 357278-36-5 357278-38-7 RL: AGR (Agricultural use); BIOL (Biological study); USES (Uses) (synergistic fungicidal compns. against downy mildew containing) 220899-03-6D, mixts. with valinamide derivs. 357278-34-3 ΙT 357278-36-5 357278-38-7 RL: AGR (Agricultural use); BIOL (Biological study); USES (Uses) (synergistic fungicidal compns. against downy mildew containing) RN220899-03-6 HCAPLUS CN Methanone, (3-bromo-6-methoxy-2-methylphenyl)(2,3,4-trimethoxy-6methylphenyl) - (9CI) (CA INDEX NAME)

RN 357278-34-3 HCAPLUS
CN Carbamic acid, [(1S)-2-methyl-1-[[[1-(4-methylphenyl)ethyl]amino]carbonyl]
propyl]-, 1-methylethyl ester, mixt. with (3-bromo-6-methoxy-2methylphenyl)(2,3,4-trimethoxy-6-methylphenyl)methanone (9CI) (CA INDEX
NAME)

CM 1

CRN 220899-03-6 CMF C19 H21 Br O5

CM 2

CRN 140923-17-7 CMF C18 H28 N2 O3

Absolute stereochemistry.

RN 357278-36-5 HCAPLUS

CN Carbamic acid, [2-methyl-1-[[[1-(2-naphthalenyl)ethyl]amino]carbonyl]propy l]-, 1-methylethyl ester, mixt. with (3-bromo-6-methoxy-2-methylphenyl)(2,3,4-trimethoxy-6-methylphenyl)methanone (9CI) (CA INDEX NAME)

CM 1

CRN 220899-03-6 CMF C19 H21 Br O5

CM 2

CRN 161011-89-8 CMF C21 H28 N2 O3

RN 357278-38-7 HCAPLUS

CN Carbamic acid, [1-[[[1-(6-fluoro-2-benzothiazolyl)ethyl]amino]carbonyl]-2-methylpropyl]-, 1-methylethyl ester, mixt. with (3-bromo-6-methoxy-2-methylphenyl)(2,3,4-trimethoxy-6-methylphenyl)methanone (9CI) (CA INDEX NAME)

CRN 345205-72-3 CMF C18 H24 F N3 O3 S

CM 2

CRN 220899-03-6 CMF C19 H21 Br O5

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L31 ANSWER 18 OF 27 HCAPLUS COPYRIGHT 2004 ACS on STN
     2001:526037 HCAPLUS
AN
     135:107143
DN
     Entered STN: 20 Jul 2001
ED
     A process for the preparation of substituted benzophenones
ΤI
     Kameswaran, Venkataraman
IN
     Basf Aktiengesellschaft, Germany
PA
     PCT Int. Appl., 21 pp.
SO
     CODEN: PIXXD2
     Patent
DT
     English
LA
     ICM C07C045-46
IC
     ICS C07C045-00; C07C205-45; C07C049-84; C07B041-06; C07D295-18
     25-16 (Benzene, Its Derivatives, and Condensed Benzenoid Compounds)
CC
FAN.CNT 1
                        KIND
                               DATE
                                           APPLICATION NO.
                                                                  DATE
     PATENT NO.
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                                                                  20010104 <--
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                                         WO 2001-EP47
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             HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT,
             LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, PL, PT, RO, RU,
             SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, UZ, VN, YU,
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RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG

US 2001031753 A1 20011018 US 2001-758809 20010111 <--

PRAI US 2000-175979P P 20000113 <--

CLASS

PATENT NO. CLASS PATENT FAMILY CLASSIFICATION CODES

WO 2001051440 ICM C07C045-46

ICS C07C045-00; C07C205-45; C07C049-84; C07B041-06;

C07D295-18

OS CASREACT 135:107143; MARPAT 135:107143

GΙ

to

$$R_{m}$$
  $R_{n}^{1}$ 

Preparation of the title compds. I [m, n = 0-5; R = halo, alkyl, haloalkyl, etc.; R1 = alkyl, alkoxy, alkoxyalkyl, NR5R6] involved acylation of substituted benzenes in the presence of graphite and FeCl3. E.g., a slurry of 3-bromo-6-methoxy-2-methylbenzoic acid in 1,2-dichloroethane is treated with oxalyl chloride at room temperature over a 15 min period, heated

700.degree. C for 2 h, cooled to room temperature, treated with 3,4,5-trimethoxytoluene, anhydrous FeCl3, and graphite to give 3'-bromo-2,3,4,6'-tetramethoxy-2',6-dimethylbenzophenone (71.7% yield).

ST benzophenone prepn

TT 7705-08-0, Iron trichloride, uses 7782-42-5, Graphite, uses
RL: CAT (Catalyst use); USES (Uses)

(preparation of substituted benzophenones)

IT 97726-03-9P 116412-83-0P 128566-22-3P 162052-60-0P 220899-03-6P 349559-65-5P 349559-66-6P 349559-67-7P

RL: IMF (Industrial manufacture); SPN (Synthetic preparation); PREP (Preparation)

(preparation of substituted benzophenones)

IT 91-16-7, Veratrole 122-01-0, 4-Chlorobenzoyl chloride 122-04-3,
4-Nitrobenzoyl chloride 618-32-6, Benzoyl bromide 831-50-5 5216-25-1
5396-38-3, 4-tert-Butylanisole 6443-69-2 7073-36-1 18063-02-0
220901-25-7

RE.CNT 5 THERE ARE 5 CITED REFERENCES AVAILABLE FOR THIS RECORD RE

- (1) American Cyanamid Co; EP 0854128 A 1998 HCAPLUS
- (2) Goendoes, G; 1996 HCAPLUS
- (3) Goendoes, G; J PHYS CHEM SOLIDS, PROCEEDINGS OF THE 8TH INTERNATIONAL SYMPOSIUM ON INTERCALATION COMPOUNDS 1996, V57, P855 HCAPLUS
- (4) Khadilkar; TETRAHEDRON LETT 1997, V38(9), P1641 HCAPLUS
- (5) Kodomari; CHEM COMMUN (CAMBRIDGE) 1997, 16, P1567 HCAPLUS

IT 220899-03-6P

RL: IMF (Industrial manufacture); SPN (Synthetic preparation); PREP (Preparation)

(preparation of substituted benzophenones)

```
RN 220899-03-6 HCAPLUS
CN Methanone, (3-bromo-6-methoxy-2-methylphenyl) (2,3,4-trimethoxy-6-methylphenyl) - (9CI) (CA INDEX NAME)
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Br Me O OMe OMe OMe OMe
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GB 1999-13794

Α

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ANSWER 19 OF 27 HCAPLUS COPYRIGHT 2004 ACS on STN
L31
AN
     2000:900389 HCAPLUS
DN
     134:38252
ED
     Entered STN: 22 Dec 2000
     Synergistic fungicidal combinations of benzophenones with strobilurins,
ΤI
     cyanoimidazoles, and carbonic acid amides
IN
     Dalton, Ian Paul
PΑ
     Novartis Ag, Switz.; Novartis-Erfindungen Verwaltungsgesellschaft M.B.H.
SO
     PCT Int. Appl., 25 pp.
     CODEN: PIXXD2
DT
     Patent
LΑ
     English
IC
     ICM A01N035-04
     ICS A01N035-04; A01N047-24; A01N047-12; A01N043-88; A01N043-653;
         A01N043-50; A01N043-40; A01N037-24; A01N037-20
CC
     5-2 (Agrochemical Bioregulators)
FAN.CNT 1
                         KIND
                               DATE
                                           APPLICATION NO.
                                                                  DATE
     PATENT NO.
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ΡI
     WO 2000076317
                         A1
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             LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, PL, PT, RO, RU, SD,
             SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, US, UZ, VN, YU,
             ZA, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM
         RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZW, AT, BE, CH, CY,
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19990614 <--

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CLASS
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 WO 2000076317
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                         A01N035-04; A01N047-24; A01N047-12; A01N043-88;
                         A01N043-653; A01N043-50; A01N043-40; A01N037-24;
                         A01N037-20
US 2002107246
                 ECLA
                         A01N035/04
                                                                                < - -
GI
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$$R^1$$
 Me OMe  $R^5$   $R^4$   $R^3$   $R^2$   $R^2$ 

- The invention relates to a method of combating phytopathogenic diseases on crop plants which comprises applying to the crop plants or the locus thereof being infested with said phytopathogenic disease an effective amount of a combination of a benzophenone I (R1 = methoxy, Me; R2 = C1-C4alkoxy, 2-halogenbenzyloxy; R3 = C1-C4alkoxy; R4 = C1-C4alkyl, halo, or trifluoromethyl; R5 = H, halo, C1-C4alkoxy, trifluoromethyl, or nitro) in association with a compound selected from strobilurins, cyanoimidazoles, and carbonic acid amides.
- ST fungicide synergistic benzophenone strobilurin cyanoimidazole carbonic acid amide
- IT Fungicides

(synergistic; combinations of benzophenones with strobilurins, cyanoimidazoles, and carbonic acid amides)

IT 117428-22-5D, Picoxystrobin, mixts. with benzophenones 120116-88-3D, IKF 916, mixts. with benzophenones 126833-17-8D, Fenhexamid, mixts. with benzophenones 140923-17-7D, Iprovalicarb, mixts. with benzophenones 156052-68-5D, RH 7281, mixts. with benzophenones 161326-34-7D, Fenamidone, mixts. with benzophenones 175013-18-0D, mixts. with

185336-79-2D, mixts. with benzophenones benzophenones 185949-88-6D. 193740-76-0D, mixts. with benzophenones mixts. with benzophenones 220898-62-4D, mixts. with strobilurins, cyanoimidazoles, and carbonic acid 220898-85-1D, mixts. with strobilurins, cyanoimidazoles, and carbonic acid amides 220899-03-6D, mixts. with strobilurins, cyanoimidazoles, and carbonic acid amides 220899-11-6D, mixts. with strobilurins, cyanoimidazoles, and carbonic acid amides 220899-25-2D, mixts. with strobilurins, cyanoimidazoles, and carbonic acid amides 220900-12-9D, mixts. with strobilurins, cyanoimidazoles, and carbonic acid amides 220900-62-9D, mixts. with strobilurins, cyanoimidazoles, and carbonic acid amides 220900-68-5D, mixts. with strobilurins, cyanoimidazoles, and carbonic acid amides 220900-85-6D, mixts. with strobilurins, cyanoimidazoles, and carbonic acid 220900-88-9D, mixts. with strobilurins, cyanoimidazoles, and 221051-13-4D, mixts. with strobilurins, carbonic acid amides cyanoimidazoles, and carbonic acid amides 221051-14-5D, mixts. with strobilurins, cyanoimidazoles, and carbonic acid amides 221051-15-6D, mixts. with strobilurins, cyanoimidazoles, and carbonic acid amides 221051-16-7D, mixts. with strobilurins, cyanoimidazoles, and carbonic acid 221051-17-8D, mixts. with strobilurins, cyanoimidazoles, and 221051-55-4D, mixts. with strobilurins, carbonic acid amides cyanoimidazoles, and carbonic acid amides 221051-56-5D, mixts. with strobilurins, cyanoimidazoles, and carbonic acid amides 221051-57-6D, mixts. with strobilurins, cyanoimidazoles, and carbonic acid amides 221051-58-7D, mixts. with strobilurins, cyanoimidazoles, and carbonic acid 221051-59-8D, mixts. with strobilurins, cyanoimidazoles, and 221051-60-1D, mixts. with strobilurins, carbonic acid amides cyanoimidazoles, and carbonic acid amides 221051-61-2D, mixts. with strobilurins, cyanoimidazoles, and carbonic acid amides 313053-52-0D, mixts. with benzophenones

RL: AGR (Agricultural use); BIOL (Biological study); USES (Uses) (in synergistic fungicidal combinations)

RE.CNT 2 THERE ARE 2 CITED REFERENCES AVAILABLE FOR THIS RECORD RE

- (1) American Cyanamid Co; EP 0897904 A 1999 HCAPLUS
- (2) American Cyanamid Co; EP 0899255 A 1999 HCAPLUS
- 220899-03-6D, mixts. with strobilurins, cyanoimidazoles, and carbonic acid amides 220900-12-9D, mixts. with strobilurins, cyanoimidazoles, and carbonic acid amides 220900-62-9D, mixts. with strobilurins, cyanoimidazoles, and carbonic acid amides 220900-68-5D, mixts. with strobilurins, cyanoimidazoles, and carbonic acid amides carbonic acid amides

RL: AGR (Agricultural use); BIOL (Biological study); USES (Uses) (in synergistic fungicidal combinations)

RN 220899-03-6 HCAPLUS

CN Methanone, (3-bromo-6-methoxy-2-methylphenyl)(2,3,4-trimethoxy-6-methylphenyl)- (9CI) (CA INDEX NAME)

RN 220900-12-9 HCAPLUS

CN Methanone, (3-chloro-6-methoxy-2-methylphenyl)(2,3,4-trimethoxy-6-methylphenyl)- (9CI) (CA INDEX NAME)

RN 220900-62-9 HCAPLUS

CN Methanone, (3-chloro-6-methoxy-2-methylphenyl) (3-ethoxy-2,4-dimethoxy-6-methylphenyl) - (9CI) (CA INDEX NAME)

RN 220900-68-5 HCAPLUS

CN Methanone, (3-chloro-6-methoxy-2-methylphenyl) (2,4-dimethoxy-6-methyl-3-propoxyphenyl) - (9CI) (CA INDEX NAME)

- L31 ANSWER 20 OF 27 HCAPLUS COPYRIGHT 2004 ACS on STN
- AN 2000:861422 HCAPLUS
- DN 134:14301
- ED Entered STN: 08 Dec 2000
- TI Synergistic fungicidal compositions
- IN Leadbitter, Neil
- PA Novartis A.-G., Switz.; Novartis-Erfindungen Verwaltungsgesellschaft m.b.H.
- SO PCT Int. Appl., 19 pp. CODEN: PIXXD2
- DT Patent
- LA English
- IC ICM A01N037-50
  - ICS A01N037-50; A01N035-04
- CC 5-2 (Agrochemical Bioregulators)

```
FAN.CNT 1
                                       KIND
                                                                      APPLICATION NO.
        PATENT NO.
                                                  DATE
                                                                                                           DATE
        WO 2000072677
                                                   20001207
                                                                     WO 2000-EP4741
PΙ
                                        A1
                                                                                                           20000524 <--
             W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CR, CU, CZ, DE, DK, DM, DZ, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM

RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG
                                                   20020327
                                                                     EP 2000-943734
                                                                                                           20000524 <--
        EP 1189508
                                         A1
                                                   20031008
        EP 1189508
                                         B1
              R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT,
                    IE, SI, LT, LV, FI, RO
                                                                      ZA 2001-8893
        ZA 2001008893
                                        Α
                                                   20020823
                                                                                                           20011029 <--
                                                                     US 2002-979330
       US 6472428
                                         B1
                                                   20021029
                                                                                                           20020212 <--
PRAI GB 1999-12219
                                         Α
                                                   19990526
                                                                  <--
       WO 2000-EP4741
                                         W
                                                   20000524
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CLASS
 PATENT NO.
                          CLASS PATENT FAMILY CLASSIFICATION CODES
                          _ _ _ _
                                     _____
 WO 2000072677
                          ICM
                                      A01N037-50
                                      A01N037-50; A01N035-04
                          ICS
                          ECLA
                                      A01N037/50
 US 6472428
                                                                                                                          <--
OS
      MARPAT 134:14301
GI
```

- The invention relates to synergistic fungicidal combinations comprising (E,E)-.alpha.-(methoxyimino)-2-[[[[1-[3-(trifluoromethyl)phenyl]ethylidene ]amino]oxy]methyl]benzeneacetic acid Me ester in association with a benzophenone I (R1 = H, halo, C1-5 alkyl or CF3; R2 = halo, C1-5 alkyl or CF3; R3 = C1-5 alkyl or optionally substituted benzyl; R4 = C1-5 alkyl) which are particularly effective in combating or preventing fungal diseases of crop plants.
- ST synergism fungicide compn benzophenone deriv
- IT Fungicides

(synergistic; compns. containing benzophenone derivative)

- IT 309752-56-5 309752-57-6 309752-58-7
  - RL: AGR (Agricultural use); BIOL (Biological study); USES (Uses) (synergistic fungicidal composition)
- IT 141517-21-7D, mixts. with benzophenone derivs.

RL: AGR (Agricultural use); BIOL (Biological study); USES (Uses) (synergistic fungicidal compns.)

RE.CNT 2 THERE ARE 2 CITED REFERENCES AVAILABLE FOR THIS RECORD

RE

(1) American Cyanamid Company; EP 0897904 A 1999 HCAPLUS

(2) Ciba-Geigy A-G Switz; EP 0460575 A 1991 HCAPLUS

IT 309752-56-5 309752-57-6 309752-58-7

RN 309752-56-5 HCAPLUS

CN Benzeneacetic acid, .alpha.-(methoxyimino)-2-[[[(E)-[1-[3-(trifluoromethyl)phenyl]ethylidene]amino]oxy]methyl]-, methyl ester, (.alpha.E)-, mixt. with (3-bromo-6-methoxy-2-methylphenyl)(2,3,4-trimethoxy-6-methylphenyl)methanone (9CI) (CA INDEX NAME)

CM 1

CRN 220899-03-6 CMF C19 H21 Br O5

CM 2

CRN 141517-21-7 CMF C20 H19 F3 N2 O4

Double bond geometry as shown.

$$F_3C$$
 $Me$ 
 $E$ 
 $N$ 
 $MeO$ 
 $E$ 
 $N$ 
 $E$ 

RN 309752-57-6 HCAPLUS

CN Benzeneacetic acid, .alpha.-(methoxyimino)-2-[[[(E)-[1-[3-(trifluoromethyl)phenyl]ethylidene]amino]oxy]methyl]-, methyl ester, (.alpha.E)-, mixt. with (3-chloro-6-methoxy-2-methylphenyl)(2,3,4-trimethoxy-6-methylphenyl)methanone (9CI) (CA INDEX NAME)

CM 1

CRN 220900-12-9 CMF C19 H21 Cl O5

CM 2

CRN 141517-21-7 CMF C20 H19 F3 N2 O4

Double bond geometry as shown.

RN 309752-58-7 HCAPLUS

CN Benzeneacetic acid, .alpha.-(methoxyimino)-2-[[[(E)-[1-[3-(trifluoromethyl)phenyl]ethylidene]amino]oxy]methyl]-, methyl ester, (.alpha.E)-, mixt. with (3-chloro-6-methoxy-2-methylphenyl)(2,4-dimethoxy-6-methyl-3-propoxyphenyl)methanone (9CI) (CA INDEX NAME)

CM 1

CRN 220900-68-5 CMF C21 H25 Cl O5

CM 2

CRN 141517-21-7 CMF C20 H19 F3 N2 O4

Double bond geometry as shown.

GI

```
L31 ANSWER 21 OF 27 HCAPLUS COPYRIGHT 2004 ACS on STN
AN
    2000:699226 HCAPLUS
DN
    133:266598
ED
    Entered STN: 04 Oct 2000
TI
    Fungicidal substituted 2-hydroxybenzophenones
    Curtze, Juergen; Morschhaeuser, Gerd; Van Tuyl Cotter, Henry
IN
PA
    American Cyanamid Company, USA
SO
    U.S., 11 pp.
    CODEN: USXXAM
\mathbf{DT}
    Patent
    English
LA
IC
    ICM C07L069-00
NCL 560140000
    25-16 (Benzene, Its Derivatives, and Condensed Benzenoid Compounds)
CC
     Section cross-reference(s): 5
FAN.CNT 1
                                          APPLICATION NO.
    PATENT NO.
                        KIND
                               DATE
                                                                DATE
                       ____
                               20001003 US 1999-329712 19990610 <--
PΙ
    US 6127570
                        Α
PRAI US 1999-329712
                               19990610 <--
CLASS
PATENT NO.
                CLASS PATENT FAMILY CLASSIFICATION CODES
US 6127570
                ICM
                       C07L069-00
                NCL
                       560140000
os
    MARPAT 133:266598
```

AB 2-Hydroxybenzophenones [I; R1 = halo, alkyl, fluoroalkyl; R2 = H, halo, alkyl, alkoxy, etc.; R3 = H, protecting group; R4 = (un)substituted alkyl] were prepared as agricultural fungicides. Thus, 0.7 g 2-acetoxy-5-bromo-6,6'-dimethyl-2',3',4'-trimethoxybenzophenone (prepared in 4 steps from Et 2-hydroxy-6-methylbenzoate) and 0.7 g potassium carbonate were stirred in MeOH (10 mL) and water (5 mL) at room temperature for 20 h to give II in 75.9% yield. At 125 ppm, II controlled wheat powdery mildew on wheat with 59% efficacy.

ST hydroxybenzophenone deriv prepn fungicidal activity

Ι

IT Fungicides

(2-hydroxybenzophenones)

IT 252955-09-2P

RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); RCT (Reactant); SPN (Synthetic preparation); BIOL (Biological study); PREP (Preparation); RACT (Reactant or reagent) (fungicidal substituted 2-hydroxybenzophenones)

IT **252955-10-5P** 252955-11-6P

RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); SPN (Synthetic preparation); BIOL (Biological study); PREP (Preparation)

(fungicidal substituted 2-hydroxybenzophenones)

IT 567-61-3 1538-75-6, Pivaloyl anhydride 3282-30-2, Pivaloyl chloride 6443-69-2, 3,4,5-Trimethoxytoluene 6555-40-4
RL: RCT (Reactant); RACT (Reactant or reagent)

(fungicidal substituted 2-hydroxybenzophenones)
IT 252955-14-9P 252955-18-3P 252955-19-4P 252955-20-7P 252955-21-8P

1 252955-14-9P 252955-18-3P 252955-19-4P 252955-20-7P 252955-22-9P 296236-21-0P

RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)

(fungicidal substituted 2-hydroxybenzophenones)

IT 252955-12-7P

RL: SPN (Synthetic preparation); PREP (Preparation) (fungicidal substituted 2-hydroxybenzophenones)

RE.CNT 4 THERE ARE 4 CITED REFERENCES AVAILABLE FOR THIS RECORD RE

- (1) Anon; WO 9302036 1993 HCAPLUS
- (2) Curtze; US 5679866 1997 HCAPLUS
- (3) Duennenberger; US 3924002 1975 HCAPLUS

(4) Islam; J Chem Res Miniprint 1991, V2, P367

IT 252955-10-5P

RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); SPN (Synthetic preparation); BIOL (Biological study); PREP (Preparation)

(fungicidal substituted 2-hydroxybenzophenones)

RN 252955-10-5 HCAPLUS

CN Methanone, (3-bromo-6-hydroxy-2-methylphenyl) (2,3,4-trimethoxy-6-methylphenyl) - (9CI) (CA INDEX NAME)

IT 252955-12-7P

RL: SPN (Synthetic preparation); PREP (Preparation) (fungicidal substituted 2-hydroxybenzophenones)

RN 252955-12-7 HCAPLUS

CN Methanone, (3-chloro-6-hydroxy-2-methylphenyl)(2,3,4-trimethoxy-6-methylphenyl)- (9CI) (CA INDEX NAME)

L31 ANSWER 22 OF 27 HCAPLUS COPYRIGHT 2004 ACS on STN

AN 2000:553194 HCAPLUS

DN 133:146282

ED Entered STN: 11 Aug 2000

TI Stable non-aqueous fungicidal or herbicidal emulsifiable concentrate for crop protection containing defoaming agents

IN Aven, Michael; Schmidt, Friedrich

PA American Cyanamid Co., USA

SO Eur. Pat. Appl., 22 pp.

CODEN: EPXXDW

DT Patent

LA English

IC ICM A01N025-02

CC 5-3 (Agrochemical Bioregulators)

FAN.CNT 1

PATENT NO. KIND DATE APPLICATION NO. DATE \_\_\_\_\_\_ \_ \_ \_ \_ -----\_\_\_\_\_\_\_ \_ \_ \_ \_ \_ \_ EP 2000-300673 PΙ EP 1025757 A1 20000809 20000128 <--R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO

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PRAI US 1999-240418
                               19990129 <--
                         Α
CLASS
PATENT NO.
               CLASS PATENT FAMILY CLASSIFICATION CODES
                EP 1025757
               ICM
                       A01N025-02
    Stable non-aqueous emulsifiable concentrate formulation for crop protection
     comprises at least one fungicide or herbicide, at least one non-polar organic
     solvent, optionally, at least one polar aprotic cosolvent, an emulsifying
     surfactant system enabling an oil-in-water emulsion to be formed when the
     formulation is added to water, and at least one defoaming or foam breaking
     agent selected from the group consisting of perfluoroalkylphosphonic
     acids, perfluoroalkylphosphinic acids and perfluoroaliph. polymeric
    esters.
ST
    fungicide herbicide emulsion conc defoaming
    Alcohols, uses
TT
    RL: MOA (Modifier or additive use); USES (Uses)
        (C9-11, ethoxylated; non-ionic surfactant in stable fungicidal or
       herbicidal emulsifiable concentrate)
IT
    Emulsions
    Emulsions
        (agrochem.; stable fungicidal or herbicidal emulsifiable concentrate
containing
       defoaming agents)
TT
    Carboxylic acids, uses
    RL: MOA (Modifier or additive use); USES (Uses)
        (dicarboxylic, C4-6, di-Me esters; co-solvent in stable fungicidal or
       herbicidal emulsifiable concentrate)
IT
    Agrochemical formulations
    Agrochemical formulations
        (emulsions; stable fungicidal or herbicidal emulsifiable concentrate
containing
       defoaming agents)
IT
    Canola oil
    RL: MOA (Modifier or additive use); USES (Uses)
        (ethoxylated, Eumulgin CO 3373; non-ionic surfactant in stable
       fungicidal or herbicidal emulsifiable concentrate)
IT
    Castor oil
    RL: MOA (Modifier or additive use); USES (Uses)
        (ethoxylated, Mergital EL 33, Ukanil 2507; co-solvent in stable
       fungicidal or herbicidal emulsifiable concentrate)
IT
    Solvent naphtha
        (solvent in stable fungicidal or herbicidal emulsifiable concentrate)
    Aromatic hydrocarbons, uses
IT
    Paraffin oils
    RL: MOA (Modifier or additive use); USES (Uses)
        (solvent in stable fungicidal or herbicidal emulsifiable concentrate)
IT
    Fungicides
        (stable fungicidal emulsifiable concentrate containing defoaming agents)
IT
    Pesticide formulations
        (stable fungicidal or herbicidal emulsifiable concentrate containing
defoaming
       agents)
TT
    Antifoaming agents
    Herbicides
        (stable herbicidal emulsifiable concentrate containing defoaming agents)
    617-51-6, Lactic acid isopropyl ester
TT
    RL: MOA (Modifier or additive use); USES (Uses)
        (Purasolv IPL; solvent in stable fungicidal or herbicidal emulsifiable
       concentrate)
    9016-00-6, Rhodorsil 454
IT
```

RL: MOA (Modifier or additive use); USES (Uses) (Rhodorsil 454; antifoaming agent in stable fungicidal or herbicidal emulsifiable concentrate)

IT 2991-51-7, Fluorad FC-129 11114-17-3, Fluorad FC-430 67906-42-7, Fluorad FC-120 68958-61-2, Fluorad FC-171 135506-92-2, Fluowet pp 141615-38-5, Fluowet pl80 287716-37-4, Rhodorsil 467 RL: MOA (Modifier or additive use); USES (Uses) (antifoaming agent in stable fungicidal or herbicidal emulsifiable concentrate)

110488-70-5, Dimethomorph 125116-23-6, Metconazole 220899-03-6
RL: AGR (Agricultural use); BIOL (Biological study); USES (Uses)
(fungicide in stable emulsifiable concentrate)

IT 29450-45-1 40487-42-1, Pendimethalin 137641-05-5, Picolinafen RL: AGR (Agricultural use); BIOL (Biological study); USES (Uses) (herbicide in stable emulsifiable concentrate)

IT 26264-05-1, Atlox 3300b 128002-46-0, Atlox 4855b
RL: MOA (Modifier or additive use); USES (Uses)
(surfactant in stable fungicidal or herbicidal emulsifiable concentrate)

RE.CNT 5 THERE ARE 5 CITED REFERENCES AVAILABLE FOR THIS RECORD RE

(1) American Cyanamid Co; EP 0727141 A 1996 HCAPLUS(2) American Cyanamid Co; EP 0878128 A 1998 HCAPLUS

(3) Ciba Geigy Ag; WO 9800008 A 1998 HCAPLUS (4) Hoechst Ag; EP 0407874 A 1991 HCAPLUS

(5) Shell Int Research; EP 0447004 A 1991 HCAPLUS

IT 220899-03-6
RL: AGR (Agricultural use); BIOL (Biological study); USES (Uses)
(fungicide in stable emulsifiable concentrate)
RN 220899-03-6 HCAPLUS

CN Methanone, (3-bromo-6-methoxy-2-methylphenyl) (2,3,4-trimethoxy-6-methylphenyl) - (9CI) (CA INDEX NAME)

L31 ANSWER 23 OF 27 HCAPLUS COPYRIGHT 2004 ACS on STN

AN 2000:534806 HCAPLUS

DN 133:131170

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ED
    Entered STN: 04 Aug 2000
TI
    Nonaqueous emulsifiable concentrate fungicide formulation
IN
     Aven, Michael
     American Cyanamid Co., USA
PA
     Eur. Pat. Appl., 15 pp.
SO
     CODEN: EPXXDW
DT
     Patent
LΑ
     English
IC
     ICM A01N043-50
     ICS A01N043-653
    A01N043-50, A01N043-90, A01N035-04, A01N025-30, A01N025-02; A01N043-653,
     A01N043-90, A01N035-04, A01N025-30, A01N025-02
     5-2 (Agrochemical Bioregulators)
FAN.CNT 1
     PATENT NO.
                       KIND
                               DATE
                                          APPLICATION NO.
                                                                DATE
                                           ______
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                               -----
                                                                 -----
                         A2
                               20000802
                                          EP 2000-300666
                                                                20000128 <--
PΙ
    EP 1023837
                               20010530
     EP 1023837
                         Α3
         R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT,
            IE, SI, LT, LV, FI, RO
PRAI US 1999-240634
                        Α
                               19990129 <--
CLASS
                CLASS PATENT FAMILY CLASSIFICATION CODES
 PATENT NO.
                ICM
                       A01N043-50
EP 1023837
                ICS
                       A01N043-653
                       A01N043-50, A01N043-90, A01N035-04, A01N025-30,
                ICI
                       A01N025-02; A01N043-653, A01N043-90, A01N035-04,
                       A01N025-30, A01N025-02
OS
     MARPAT 133:131170
GΙ
```

$$R^{1}$$
 $R^{2}$ 
 $CH_{2}$ 
 $CH_{2}$ 
 $R^{3}n$ 

The title formulation comprises 50-300 g/L azole derivative I [R1, R2 = H or (un) substituted alkyl, alkenyl, alkynyl or alkadienyl; R3 = halo or (un) substituted alkyl, alkenyl, alkynyl, alkadienyl, alkoxy or aryl; A = N or CH; n = 0,1 or 2] and, optionally, 50-500 g/L addnl. fungicide, as active ingredient. The inactive formulation ingredients are .gtoreq.700 g/L alkoxylates of an aliphatic alc., .ltoreq.100 g/L nonionic dispersant(s), 10-100 g/L anionic dispersant(s), 50-600 g/L polar aprotic organic solvent(s), 150-500 g/L nonpolar organic solvent(s), and .ltoreq.5 g/L defoamer.

ST emulsifiable conc fungicide formulation

IT Alcohols, uses

RL: MOA (Modifier or additive use); USES (Uses)
 (C9-11, ethoxylated; nonaq. emulsifiable concentrate fungicidal formulation
 containing)

IT Castor oil

RL: MOA (Modifier or additive use); USES (Uses) (ethoxylated, Ukanil 2507; nonaq. emulsifiable concentrate fungicidal formulation containing)

IT Fungicides

Pesticide formulations

(nonaq. emulsifiable concentrate fungicidal formulation containing)

IT 26264-06-2, Calcium dodecylbenzenesulfonate

RL: MOA (Modifier or additive use); USES (Uses)

(Rhodacal 70B; nonaq. emulsifiable concentrate fungicidal formulation containing)

IT 125116-23-6, Metconazole 214633-94-0 220899-03-6

RL: AGR (Agricultural use); BUU (Biological use, unclassified); BIOL (Biological study); USES (Uses)

(nonaq. emulsifiable concentrate fungicidal formulation containing)

IT 96-48-0, gamma.-Butyrolactone 2687-94-7, N-Octylpyrrolidone 6837-24-7, N-Cyclohexylpyrrolidone 9016-45-9, Synperonic NP-4 26264-05-1, Atlox 3300B 140175-09-3, Atplus MBA 11-7 141615-38-5, Fluowet PL80

RL: MOA (Modifier or additive use); USES (Uses) (nonaq. emulsifiable concentrate fungicidal formulation containing)

IT 220899-03-6

RL: AGR (Agricultural use); BUU (Biological use, unclassified); BIOL (Biological study); USES (Uses)

(nonaq. emulsifiable concentrate fungicidal formulation containing)

RN 220899-03-6 HCAPLUS

CN Methanone, (3-bromo-6-methoxy-2-methylphenyl) (2,3,4-trimethoxy-6-methylphenyl) - (9CI) (CA INDEX NAME)

L31 ANSWER 24 OF 27 HCAPLUS COPYRIGHT 2004 ACS on STN

AN 2000:534802 HCAPLUS

DN 133:131191

ED Entered STN: 04 Aug 2000

TI Emulsifiable concentrate containing one or more pesticides and adjuvants

IN Aven, Michael

PA American Cyanamid Co., USA

SO Eur. Pat. Appl., 16 pp. CODEN: EPXXDW

DT Patent

LA English

IC ICM A01N025-30

ICS A01N025-02

CC 5-4 (Agrochemical Bioregulators)

FAN.CNT 1

PATENT NO. KIND DATE APPLICATION NO. DATE \_ \_ \_ \_ -----\_\_\_\_\_\_\_ \_\_\_\_\_ \_\_\_\_\_\_ 20000128 <--EP 1023833 A2 20000802 EP 2000-300667 ΡI EP 1023833 A3 ' 20010718 R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT,

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IE, SI, LT, LV, FI, RO
US 6566308 B1 20030520
PRAI US 1999-117707P P 19990129
US 1999-240645 A 19990129
CLASS
                                         US 1999-466747
                                                                 19991217 <--
                               19990129 <--
                               19990129 <--
              CLASS PATENT FAMILY CLASSIFICATION CODES
 PATENT NO.
 ______
               ICM A01N025-30
EP 1023833
                ICS
                      A01N025-02
    MARPAT 133:131191
OS
    The invention relates to a stable emulsifiable concentrate which comprises: (a)
AΒ
    pesticide(s); (b) 150-500 g/L adjuvant(s); (c) optionally one or more organic
    nonpolar solvents; (d) an emulsifying surfactant system forming an
    oil-in-water emulsion when the formulation is added to water, which
     consists of nonionic surfactant(s) and anionic surfactant(s); (e) a
    water-miscible polar aprotic solvent or di-Me dicarboxylate(s); and (f)
    optionally an antifoam agent.
ST
    pesticide emulsion conc
    Alcohols, uses
IT
    RL: MOA (Modifier or additive use); USES (Uses)
        (C9-11, ethoxylated, Synperonic 91/6; emulsifiable pesticide concentrate
       containing)
     Carboxylic acids, uses
TΤ
     RL: MOA (Modifier or additive use); USES (Uses)
        (dicarboxylic, C4-6, di-Me esters; emulsifiable pesticide concentrate
containing)
    Pesticide formulations
IT
        (emulsifiable concentrate)
TT
     Canola oil
     RL: MOA (Modifier or additive use); USES (Uses)
        (ethoxylated, Emulgin CO 3373; emulsifiable pesticide concentrate
containing)
IT
    Castor oil
     RL: MOA (Modifier or additive use); USES (Uses)
        (ethoxylated; emulsifiable pesticide concentrate containing)
     9016-00-6, Rhodorsil 454
TT
     RL: MOA (Modifier or additive use); USES (Uses)
        (Rhodorsil 454; emulsifiable pesticide concentrate containing)
     40487-42-1, Pendimethalin 110488-70-5, Dimethomorph 125116-23-6,
_{
m IT}
     Metconazole 220899-03-6
     RL: AGR (Agricultural use); BIOL (Biological study); USES (Uses)
        (emulsifiable concentrate formulation of)
     1331-61-9 2687-94-7 2687-96-9, Agsol Ex12 6837-24-7
TI
                     26264-05-1, Atlox 3300B 26264-06-2, Rhodacal 70B
     Fluorad FC-430
     32440-50-9, Agrimer AL25 135506-92-2, Fluowet PP 140175-09-3, Atplus
     MBA 11-7 141615-38-5, Fluowet PL80 286940-42-9, Atplus 4855B
     286940-71-4, Rhodorsil 416 286940-99-6, Phenylsulfonat CA 100
     RL: MOA (Modifier or additive use); USES (Uses)
        (emulsifiable pesticide concentrate containing)
IT
     220899-03-6
     RL: AGR (Agricultural use); BIOL (Biological study); USES (Uses)
        (emulsifiable concentrate formulation of)
     220899-03-6 HCAPLUS
RN
     Methanone, (3-bromo-6-methoxy-2-methylphenyl)(2,3,4-trimethoxy-6-
CN
     methylphenyl) - (9CI) (CA INDEX NAME)
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ANSWER 25 OF 27 HCAPLUS COPYRIGHT 2004 ACS on STN
AN
     1999:819042 HCAPLUS
DN
     132:49794
ED
     Entered STN: 30 Dec 1999
     Preparation of substituted 2-hydroxybenzophenones as agrochemical
TI
     fungicides
     Curtze, Juergen; Morschhaeuser, Gerd; Cotter, Henry Van Tuyl
IN
     American Cyanamid Company, USA; BASF AG
PΑ
so
     Eur. Pat. Appl., 20 pp.
     CODEN: EPXXDW
DT
     Patent
LA
     English
IC
     ICM C07C049-83
     ICS C07C205-45; C07C069-145; A01N035-04; A01N037-02; A01N033-10
     25-16 (Benzene, Its Derivatives, and Condensed Benzenoid Compounds)
     Section cross-reference(s): 5
FAN.CNT 1
     PATENT NO.
                         KIND
                                DATE
                                            APPLICATION NO.
                                                                    DATE
     EP 967196
                                19991229
                                            EP 1999-304860
                                                                    19990622 <--
PΙ
                          A2
                                20011219
     EP 967196
                          Α3
                                20031022
     EP 967196
                          В1
         R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT,
             IE, SI, LT, LV, FI, RO
                          E
                                20031115
                                            AT 1999-304860
                                                                    19990622 <--
     AT 252537
                                19980624
PRAI US 1998-103435
                          Α
                                          <--
CLASS
                 CLASS PATENT FAMILY CLASSIFICATION CODES
 PATENT NO.
 EP 967196
                 ICM
                        C07C049-83
                        C07C205-45; C07C069-145; A01N035-04; A01N037-02;
                 ICS
                        A01N033-10
     MARPAT 132:49794
OS
GΙ
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$$R^3$$
 O O Me OH O Me  $R^2$  OMe  $MeO$  OMe  $MeO$  OMe  $MeO$  OMe III

Searched by Noble Jarrell

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The title compds. [I; R1 = halo, alkyl, fluoroalkyl; R2 = H, halo, alkyl,
AB
     etc.; R1R2 = CH:CHCH:CH; R3 = H, protecting group; R4 = alkyl], useful as
     fungicides having high systemicities, were prepared Thus, treatment of
     2-acetoxy-5-bromo-6,6'-dimethyl-2',3',4'-trimethoxybenzophenone (preparation
     given) with K2CO3 in MeOH/H2O afforded 76% II which showed 100% control of
     wheat powdery mildew at 5 ppm (4/5 day residual inoculation).
     fungicide agrochem hydroxybenzophenone prepn; ascomycete fungicide
ST
     agrochem hydroxybenzophenone prepn; Erysiphaceae fungicide agrochem
     hydroxybenzophenone prepn; Blumeria graminis fungicide agrochem
     hydroxybenzophenone prepn; Erysiphe cichoracearum fungicide agrochem
     hydroxybenzophenone prepn; Podosphaera leucotricha fungicide agrochem
     hydroxybenzophenone prepn; Uncinula necator fungicide agrochem
    hydroxybenzophenone prepn
IT
     Fungicides
        (agrochem.; preparation of substituted 2-hydroxybenzophenones as fungicides)
IT
     Ascomycete (Ascomycota)
     Blumeria graminis
     Erysiphaceae
     Erysiphe cichoracearum
     Podosphaera leucotricha
     Uncinula necator
        (preparation of substituted 2-hydroxybenzophenones as fungicides)
                    252955-14-9P
IT
     252955-09-2P
     RL: AGR (Agricultural use); BAC (Biological activity or effector, except
     adverse); BSU (Biological study, unclassified); RCT (Reactant); SPN
     (Synthetic preparation); BIOL (Biological study); PREP (Preparation); RACT
     (Reactant or reagent); USES (Uses)
        (preparation of substituted 2-hydroxybenzophenones as fungicides)
                    252955-11-6P 252955-12-7P 252955-13-8P
IT
     252955-10-5P
     252955-15-0P
                    252955-16-1P
     RL: AGR (Agricultural use); BAC (Biological activity or effector, except
     adverse); BSU (Biological study, unclassified); SPN (Synthetic
     preparation); BIOL (Biological study); PREP (Preparation); USES (Uses)
        (preparation of substituted 2-hydroxybenzophenones as fungicides)
     567-61-3, 2-Hydroxy-6-methylbenzoic acid 1538-75-6, Pivaloyl anhydride
                                   6443-69-2, 3,4,5-Trimethoxytoluene
     3282-30-2, Pivaloyl chloride
     6555-40-4
     RL: RCT (Reactant); RACT (Reactant or reagent)
        (preparation of substituted 2-hydroxybenzophenones as fungicides)
                                   252955-19-4P
                                                  252955-20-7P
                                                                 252955-21-8P
     252955-17-2P
                    252955-18-3P
     252955-22-9P
     RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT
     (Reactant or reagent)
        (preparation of substituted 2-hydroxybenzophenones as fungicides)
     252955-10-5P 252955-12-7P
IT
     RL: AGR (Agricultural use); BAC (Biological activity or effector, except
     adverse); BSU (Biological study, unclassified); SPN (Synthetic
     preparation); BIOL (Biological study); PREP (Preparation); USES (Uses)
        (preparation of substituted 2-hydroxybenzophenones as fungicides)
RN
     252955-10-5 HCAPLUS
     Methanone, (3-bromo-6-hydroxy-2-methylphenyl) (2,3,4-trimethoxy-6-
CN
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methylphenyl) - (9CI) (CA INDEX NAME)

RN 252955-12-7 HCAPLUS

CN Methanone, (3-chloro-6-hydroxy-2-methylphenyl)(2,3,4-trimethoxy-6-methylphenyl)- (9CI) (CA INDEX NAME)

L31 ANSWER 26 OF 27 HCAPLUS COPYRIGHT 2004 ACS on STN

AN 1999:439359 HCAPLUS

DN 131:87719

ED Entered STN: 19 Jul 1999

TI Preparation of 5-bromo-2-methoxy-6-alkyl benzoic acids as intermediates for agricultural fungicides

IN Curtze, Juergen; Simon, Werner; Morschhaeuser, Gerd; Waldeck, Andreas;
 Stumm, Karl-Otto; Van Tuyl Cotter, Henry; Albert, Guido; Rehnig, Annerose;
 Reichert, Gunther

PA American Cyanamid Company, USA

SO U.S., 12 pp., Cont.-in-part of U.S. Ser. No. 914,966. CODEN: USXXAM

DT Patent

LA English

IC ICM C07C065-00

NCL 562474000

CC 25-17 (Benzene, Its Derivatives, and Condensed Benzenoid Compounds)
Section cross-reference(s): 5

FAN CNT 2

L MIN .	PATENT NO.	KIND DATE	APPLICATION NO.	DATE
	FAILNI NO.			
PI	US 5922905	A 19990	713 US 1997-953048	19971017 <
	US 5945567	A 19990	831 US 1997-914966	19970820 <
	HR 980439	B1 20030	831 HR 1998-980439	19980811 <
	SK 283231	B6 20030	401 SK 1998-1131	19980817 <
	CA 2245124	AA 19990	220 CA 1998-2245124	19980818 <
	EP 897904	A1 19990	224 EP 1998-306583	19980818 <
	EP 897904	B1 20020	220	
	R: AT, BE, C	H, DE, DK, ES,	FR, GB, GR, IT, LI, LU, NL,	SE, MC, PT,
	IE, SI, L'	T, LV, FI, RO		
	JP 11171818	A2 19990	629 JP 1998-246511	19980818 <
	AT 213491	E 20020	315 AT 1998-306583	19980818 <
	PT 897904	T 20020	830 PT 1998-306583	19980818 <

OS GI MARPAT 131:87719

The title compds. [I; R1 = alkyl], intermediates for agricultural AB herbicides of benzophenone type, were prepared by bromination of 2-methoxy-6-alkyl benzoic acids in polar solvents, e.g., aliphatic alcs. or aliphatic carboxylic acids, in the presence of a weak base or a buffer system, e.g., NaOAc or Na2CO3. 5-Bromo-2-methoxy-6-methylbenzoic acid is also claimed. For example, Et 6-chloro-2-methoxybenzoate was brominated in AcOH, the 5-bromo derivative (69%) saponified and acidified, the acid (85%) chlorinated with (COC1)2 in CH2Cl2 and the acid chloride without purification condensed with 3,4,5-(MeO)3C6H2Me in CH2Cl2 in the presence of AlCl3 to give 35.4% 5-bromo-6-chloro-6'-methyl-2,2',3',4'-tetramethoxybenzophenone (m. 87-88.degree.) which had ED50 = 5 ppm and 7 ppm against wheat powdery mildew and barley powdery mildew, resp., vs. 12 and 26 ppm for quinoxyfen as a reference benzoic acid bromo methoxy prepn agricultural fungicide intermediate; ST

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chloromethoxybenzoate ester bromination agricultural fungicide intermediate prepn; bromochloromethoxybenzoate prepn sapon acid

chlorination agricultural fungicide intermediate prepn; methoxytoluene condensation bromochloromethoxybenzoyl chloride agricultural fungicide intermediate prepn; bromochloromethyltetramethoxybenzophenone prepn agricultural fungicide; benzophenone methyl bromo chloro tetramethoxy prepn agricultural fungicide IT Fungicides (agrochem.; preparation of 5-bromo-2-methoxy-6-alkyl benzoic acids as intermediates for) IT 6443-69-2, 3,4,5-Trimethoxytoluene RL: RCT (Reactant); RACT (Reactant or reagent) (benzoylation with methoxy(methyl)benzoyl chloride; preparation of 5-bromo-2-methoxy-6-alkyl benzoic acids as intermediates for agricultural fungicides) IT 172217-12-8 RL: RCT (Reactant); RACT (Reactant or reagent) (bromination; preparation of 5-bromo-2-methoxy-6-alkyl benzoic acids as intermediates for agricultural fungicides) ΙT RL: RCT (Reactant); RACT (Reactant or reagent) (etherification with di-Me sulfate; preparation of 5-bromo-2-methoxy-6-alkyl benzoic acids as intermediates for agricultural fungicides) IT RL: RCT (Reactant); RACT (Reactant or reagent) (etherification with sodium methoxide; preparation of 5-bromo-2-methoxy-6alkyl benzoic acids as intermediates for agricultural fungicides) 6161-65-5P, 2-Methoxy-6-methylbenzoic acid 220901-05-3P ΙT RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent) (preparation and acid chlorination; preparation of 5-bromo-2-methoxy-6-alkyl benzoic acids as intermediates for agricultural fungicides) 50463-84-8P, 2-Methoxy-6-methylbenzoyl chloride TT 220901-12-2P 220901-25-7P RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent) (preparation and benzoylation of trimethoxytoluene; preparation of 5-bromo-2-methoxy-6-alkyl benzoic acids as intermediates for agricultural fungicides) 220904-39-2P 133379-06-3P TT 13343-92-5P RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent) (preparation and saponification; preparation of 5-bromo-2-methoxy-6-alkyl benzoic acids as intermediates for agricultural fungicides) 220898-85-1P 220898-94-2P 220898-69-1P 220898-75-9P 220898-62-4P 220899-03-6P RL: AGR (Agricultural use); BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); SPN (Synthetic preparation); BIOL (Biological study); PREP (Preparation); USES (Uses) (preparation of 5-bromo-2-methoxy-6-alkyl benzoic acids as intermediates for agricultural fungicides) 6520-83-8, Ethyl 2-methoxy-6-methylbenzoate ΙT RL: RCT (Reactant); RACT (Reactant or reagent) (saponification; preparation of 5-bromo-2-methoxy-6-alkyl benzoic acids as intermediates for agricultural fungicides) 71-36-3, 1-Butanol, reactions TТ RL: RCT (Reactant); RACT (Reactant or reagent) (transetherification of tetramethoxybenzophenone derivative; preparation of 5-bromo-2-methoxy-6-alkyl benzoic acids as intermediates for agricultural fungicides) THERE ARE 7 CITED REFERENCES AVAILABLE FOR THIS RECORD RE.CNT

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RE
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(1) Auerbach; US 5248817 1993 HCAPLUS

(2) Auerbach; Tetrahedron Letters 1993, V34(06), P931 HCAPLUS

(3) Keller-Schierlein; Helv Chim Acta 1969, V52(1), P127 HCAPLUS

(4) Kumar; J Indian Chem Soc 1974, V51(11), P944 HCAPLUS

(5) March, J; Advanced Organic Chemistry, third edition 1985, P334

(6) Muntwyler; Helv Chim Acta 1970, V53(6), P1544 HCAPLUS

(7) Nishiyama; Journal of Organic Chemistry 1992, V57, P407 HCAPLUS

IT 220899-03-6P

RL: AGR (Agricultural use); BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); SPN (Synthetic preparation); BIOL (Biological study); PREP (Preparation); USES (Uses) (preparation of 5-bromo-2-methoxy-6-alkyl benzoic acids as intermediates for agricultural fungicides)

RN 220899-03-6 HCAPLUS

CN Methanone, (3-bromo-6-methoxy-2-methylphenyl) (2,3,4-trimethoxy-6-methylphenyl) - (9CI) (CA INDEX NAME)

L31 ANSWER 27 OF 27 HCAPLUS COPYRIGHT 2004 ACS on STN

AN 1999:139752 HCAPLUS

DN 130:209501

ED Entered STN: 04 Mar 1999

TI Preparation of fungicidal 2-methoxybenzophenones

IN Curtze, Juergen; Morschhaeuser, Gerd; Stumm, Karl-Otto; Albert, Guido; Reichert, Gunther; Simon, Werner; Waldeck, Andreas; Van Tuyl Cotter, Henry; Rehnig, Annerose Edith Elise

PA American Cyanamid Company, USA

SO Eur. Pat. Appl., 29 pp.

CODEN: EPXXDW

DT Patent

LA English

IC ICM C07C049-84

ICS C07C205-45; C07C065-21; A01N035-04; C07C045-46; C07C045-70; C07C045-68; C07C051-363; C07C067-307; C07C051-60; C07C051-347; C07C067-343; C07C069-92

CC 25-16 (Benzene, Its Derivatives, and Condensed Benzenoid Compounds)
 Section cross-reference(s): 5

FAN.CNT 2

1.1114.	C141 2							
	PATENT	NO.			KINI	DATE	APPLICATION NO.	DATE
PI	EP 897	904			A1	19990224	EP 1998-306583	19980818 <
	EP 897	904			B1	20020220		
	R:	AT,	BE,	CH,	DE,	DK, ES, FR,	GB, GR, IT, LI, LU,	NL, SE, MC, PT,
		ΙE,	SI,	LT,	LV,	FI, RO		
	US 594!	5567			Α	19990831	US 1997-914966	19970820 <
	US 5923	2905			Α	19990713	US 1997-953048	19971017 <
	US 6001	1883			A	19991214	US 1998-103887	19980624 <
PRAI	US 199'	7-9149	66		Α	19970820	<	

US 1997-953048 US 1998-103887 CLASS	
·	ASS PATENT FAMILY CLASSIFICATION CODES
	CM C07C049-84 CS C07C205-45; C07C065-21; A01N035-04; C07C045-46; C07C045-70; C07C045-68; C07C051-363; C07C067-307;
EP 897904 EC	C07C051-60; C07C051-347; C07C067-343; C07C069-92  LA A01N035/04; C07C045/46; C07C045/67C; C07C045/67C1; C07C045/68; C07C045/70; C07C045/71; C07C049/84; C07C065/21; C07C065/24; C07C205/45 <
US 5945567 EC	CLA A01N035/04; C07C045/46; C07C045/67C; C07C045/67C1; C07C045/68; C07C045/70; C07C045/71; C07C049/84; C07C065/21; C07C065/24; C07C205/45 <
US 5922905 EC	CLA A01N035/04; C07C065/24; C07C205/45; C07C045/46; C07C045/67C; C07C045/67C1; C07C004/68; C07C045/70; C07C045/71; C07C049/84; C07C065/21 <
US 6001883 EC	A01N035/04; C07C045/46; C07C045/67C; C07C045/67C1; C07C045/68; C07C045/70; C07C045/71; C07C049/84; C07C065/21; C07C065/24; C07C205/45 <
OS MARPAT 130:209	

The title compds. [I; R1 = halo, alkyl, haloalkyl; R2 = H, halo, alkyl, etc.; R1R2 = CH:CHCH:CH; R3, R4 = alkyl; n = 0-3], useful as agrochem. fungicides, were prepared Thus, bromination of Et 6-methyl-2-methoxybenzoate followed by hydrolysis of the resulting Et 5-bromo-6-methyl-2-methoxybenzoate, and reaction of 5-bromo-6-methyl-2-methoxybenzoic acid with 3,4,5-trimethoxytoluene afforded benzophenone II which showed 64% control against wheat powdery mildew at 125 ppm (curative fungicidal activity) and 100% control against wheat powdery mildew at 5 ppm (residual fungicidal activity).

ST fungicide agrochem methoxybenzophenone prepn; benzophenone methoxy prepn fungicide agrochem; ascomycete Erysiphaceae fungicide agrochem benzophenone methoxy prepn

IT Fungicides

(agrochem.; preparation of fungicidal 2-methoxybenzophenones)

IT Ascomycete (Ascomycota)

Erysiphaceae

(preparation of fungicidal 2-methoxybenzophenones)

IT 220898-62-4P 220899-03-6P

RL: AGR (Agricultural use); BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); RCT (Reactant); SPN (Synthetic preparation); BIOL (Biological study); PREP (Preparation); RACT (Reactant or reagent); USES (Uses)

(preparation of fungicidal 2-methoxybenzophenones)

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IT
    220898-69-1P
                   220898-75-9P
                                   220898-85-1P
                                                  220898-94-2P
                                                                 220899-11-6P
     220899-25-2P
                    220899-33-2P
                                   220899-42-3P
                                                  220899-48-9P
                                                                 220899-65-0P
                   220899-90-1P
                                   220899-98-9P 220900-04-9P
     220899-72-9P
     220900-12-9P 220900-19-6P 220900-25-4P
                   220900-38-9P 220900-46-9P 220900-62-9P
     220900-30-1P
                   220900-75-4P
                                   220900-85-6P
                                                  220900-88-9P
     220900-68-5P
                                   220902-38-5P
                                                  220902-44-3P
     220900-94-7P
                   220902-04-5P
                                   220902-62-5P
                                                  220902-63-6P
                    220902-60-3P
     220902-53-4P
     220902-64-7P
                   220902-65-8P
    RL: AGR (Agricultural use); BAC (Biological activity or effector, except
     adverse); BSU (Biological study, unclassified); SPN (Synthetic
    preparation); BIOL (Biological study); PREP (Preparation); USES (Uses)
        (preparation of fungicidal 2-methoxybenzophenones)
                                        507-20-0, tert-Butyl chloride
IT
     452-70-0, 4-Fluoro-3-methylphenol
                 6443-69-2, 3,4,5-Trimethoxytoluene 6520-83-8, Ethyl
     2283-08-1
     2-methoxy-6-methylbenzoate 23550-92-7 32890-94-1, 2-Fluoro-6-
     trifluoromethylbenzoic acid
                                   172217-12-8
                                                 183725-30-6
                                                               220901-99-5
    RL: RCT (Reactant); RACT (Reactant or reagent)
        (preparation of fungicidal 2-methoxybenzophenones)
                6161-65-5P, 2-Methoxy-6-methylbenzoic acid
                                                              13343-92-5P
IT
     947-62-6P
     50463-84-8P, 2-Methoxy-6-methylbenzoyl chloride
                                                       119692-41-0P
                                                  220901-25-7P
                   220901-05-3P
                                   220901-12-2P
                                                                 220901-37-1P
     133379-06-3P
                                   220901-54-2P
                                                  220901-60-0P
                                                                 220901-65-5P
     220901-41-7P
                    220901-47-3P
     220901-72-4P
                    220904-39-2P
    RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT
     (Reactant or reagent)
        (preparation of fungicidal 2-methoxybenzophenones)
             THERE ARE 2 CITED REFERENCES AVAILABLE FOR THIS RECORD
RE.CNT
RE
(1) American Cyanamid Co; EP 0727141 A 1996 HCAPLUS
(2) Islam, M; J CHEM RES SYNOP V91(2), P29
     220899-03-6P
     RL: AGR (Agricultural use); BAC (Biological activity or effector, except
     adverse); BSU (Biological study, unclassified); RCT (Reactant); SPN
     (Synthetic preparation); BIOL (Biological study); PREP (Preparation); RACT
     (Reactant or reagent); USES (Uses)
        (preparation of fungicidal 2-methoxybenzophenones)
RN
     220899-03-6 HCAPLUS
    Methanone, (3-bromo-6-methoxy-2-methylphenyl)(2,3,4-trimethoxy-6-
CN
    methylphenyl) - (9CI) (CA INDEX NAME)
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220900-04-9P 220900-12-9P 220900-19-6P
220900-25-4P 220900-46-9P 220900-62-9P
220900-68-5P 220900-94-7P 220902-53-4P
RL: AGR (Agricultural use); BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); SPN (Synthetic preparation); BIOL (Biological study); PREP (Preparation); USES (Uses)
(preparation of fungicidal 2-methoxybenzophenones)
RN 220900-04-9 HCAPLUS

CN Methanone, (3-bromo-6-methoxy-2-methylphenyl)(2-butoxy-3,4-dimethoxy-6-methylphenyl)- (9CI) (CA INDEX NAME)

RN 220900-12-9 HCAPLUS

CN Methanone, (3-chloro-6-methoxy-2-methylphenyl)(2,3,4-trimethoxy-6-methylphenyl)- (9CI) (CA INDEX NAME)

RN 220900-19-6 HCAPLUS

CN Methanone, (3-iodo-6-methoxy-2-methylphenyl) (2,3,4-trimethoxy-6-methylphenyl) - (9CI) (CA INDEX NAME)

RN 220900-25-4 HCAPLUS

CN Methanone, (3-bromo-6-methoxy-2-methylphenyl)(2-ethoxy-3,4-dimethoxy-6-methylphenyl)- (9CI) (CA INDEX NAME)

RN 220900-46-9 HCAPLUS

CN Methanone, (3-bromo-6-methoxy-2-methylphenyl)[3,4-dimethoxy-6-methyl-2-(3-methylbutoxy)phenyl]- (9CI) (CA INDEX NAME)

- RN 220900-62-9 HCAPLUS
- CN Methanone, (3-chloro-6-methoxy-2-methylphenyl) (3-ethoxy-2,4-dimethoxy-6-methylphenyl) (9CI) (CA INDEX NAME)

- RN 220900-68-5 HCAPLUS
- CN Methanone, (3-chloro-6-methoxy-2-methylphenyl)(2,4-dimethoxy-6-methyl-3-propoxyphenyl)- (9CI) (CA INDEX NAME)

- RN 220900-94-7 HCAPLUS
- CN Methanone, (3-fluoro-6-methoxy-2-methylphenyl)(2,3,4-trimethoxy-6-methylphenyl)- (9CI) (CA INDEX NAME)

RN 220902-53-4 HCAPLUS

CN Methanone, (3-bromo-6-methoxy-2-methylphenyl)[2,4-dimethoxy-6-methyl-3-(pentyloxy)phenyl]- (9CI) (CA INDEX NAME)

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